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Summary of Cotton Fiber and Processing Test Results

CHOP at

1980



U.S. DEPARTMENT OF AGRICULTURE
Agricultural Marketing Service
Cotton Division JULY 1981

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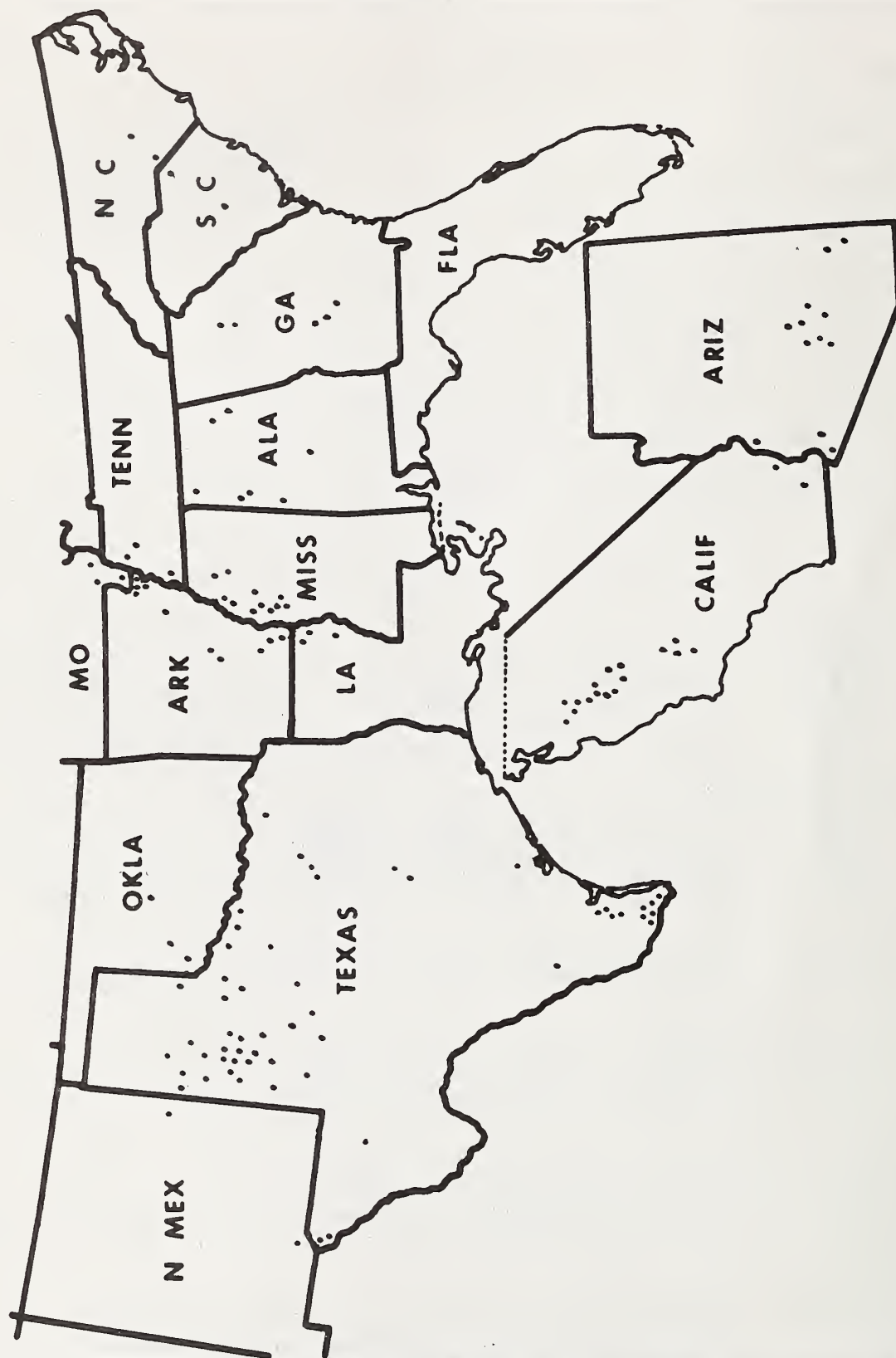
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DISTRIBUTION OF PRODUCTION AREAS
FROM WHICH COTTON SAMPLES WERE TESTED, CROP OF 1980



U. S. DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICE

Figure 1. Location of production areas selected for the 1980 Survey.

SUMMARY OF COTTON FIBER AND PROCESSING TEST RESULTS CROP OF 1980

INTRODUCTION

This report contains information on the fiber properties and spinning performance of cotton from major commercial production areas of the United States. Similar reports have been published annually since 1946.^{1/} These reports summarize and add supplemental information to the data published in biweekly reports which were titled "Cotton Fiber and Processing Test Results, Crop of 1980" and numbered 1 through 14.

The results of fiber and spinning tests made in connection with these annual surveys provide data for studies of the relationships between fiber properties, processing performance and product quality. The data are used to measure the effectiveness of the standards to be sure that they continue to reflect differences in spinning utility. The biweekly reports enable merchants and manufacturers to use the results to locate sources of cotton to meet their specific requirements. Farmers and breeders may also use the data as a source of quality information regarding the various varieties of cottons produced under commercial growing conditions.

SAMPLING PROCEDURES

The procedure for selecting samples for the 1980 survey was designed to provide test lots representing all major varieties in each of the territories served by Cotton Division Marketing Services Offices (MSO). Variety selections were based on the predominant varieties planted in each MSO territory as reported by the Cotton Division in "Cotton Varieties Planted, 1976-1980." A production area was selected to represent the leading variety and one to represent each of the other varieties with an expected production of 10,000 bales or more in each MSO territory. Additional areas were selected for those varieties with a production of over 150,000 bales. One additional production area was selected for each 150,000 bales or portion thereof in excess of the first 150,000 bales. Production areas with at least 70 percent of one variety were designated as that variety with no attempt made to maintain the purity of the variety except by selection of representative production areas. However, in some cases where there was an unusual interest in a particular variety and a low percentage was planted in the area, the MSO selected lots representing 100 percent of the variety. The locations of the 134 production areas selected for the 1980 survey are shown on Figure 1.

^{1/} Copies of past summary reports may be obtained from the Testing Section, Cotton Division, AMS, USDA, P.O. Box 67, Clemson, SC 29631, until supplies are exhausted.

Test lots were collected from each production area during the harvest season at three-week intervals. Lots were selected to represent the predominant grade and staple being classed at the time of collection. For the most part, these areas produce the specified qualities in quantities large enough to enable buyers to obtain lots of even-running grade and staple. Obviously, other qualities of cotton are available in each area as a result of normal seasonal, soil, harvesting and other variations. Most production areas also produce cotton of varieties other than those included in these tests.

Each spinning lot used in this study was made up of 20 to 30 samples of the same grade and staple length from bales classed for growers under the Smith-Doxey Act. These even-running lots of samples were then tested at the Cotton Division's Fiber and Spinning Laboratory located at Clemson, South Carolina. While this method of collecting samples does not provide data for all qualities in the crop, it does provide average test results for those qualities in largest supply during each three-week period.

LABORATORY PROCEDURES

Fiber, spinning and chemical finishing tests were performed under standardized procedures at the Cotton Division Spinning Laboratory at Clemson, SC. Most of the fiber tests were performed in the standard atmospheric conditions of 65 percent relative humidity at a temperature of 70 degrees F. Standard test procedures as outlined by the American Society for Testing and Materials were used in making tests. Tests not covered by ASTM were performed using commonly accepted procedures as recommended by the instrument manufacturer. Five subsamples were taken at random from each spinning lot to provide representative specimens for the fiber tests.

Yarn processing or spinning tests were performed by a technique developed in the Cotton Division laboratories for processing small lots of cotton on standard-type textile machines. The samples in each lot were thoroughly composited by hand-mixing before being fed to the first process picker. This hand-mixing is similar to the machine-mixing normally obtained in cotton textile opening equipment. Observations were made at each process to measure processing behavior and the yarns produced were tested to measure product quality.

On the basis of average past performance, cottons were grouped according to the expected staple length for the specified variety. All cottons of the specified variety were spun in the same manner regardless of difference in staple length. This was done so that direct comparisons of different lots of cotton within a specified variety could be made. These samples were carded at specified production rates and spun into numbers that reflect the manufacturing values of the varieties tested. In general, the rate of carding and yarn numbers from the 1980 crop are as follows:

- Group 1 - Short staple cottons, carded at 12-1/2 pounds per hour and spun into carded 8s and 22s yarns with a twist multiplier of 4.40 plus a carded yarn spinning potential test for all lots. This includes varieties which normally produce staple lengths 31/32 inch and shorter.

- Group 2 - Medium staple cottons, carded at 9-1/2 pounds per hour and spun into carded 22s and 50s yarns with a twist multiplier of 4.00 plus a carded yarn spinning potential test for all lots. This group includes varieties which normally produce cottons from 1 inch through 1-3/32 inches in staple length.
- Group 3 - Long staple cottons, carded at 6-1/2 pounds per hour and spun into both carded and combed 22s and 50s yarns with a twist multiplier of 3.80 plus a carded yarn spinning potential test for all lots. This group includes Upland varieties which normally produce cottons from 1-1/8 inches through 1-1/4 inches in staple length.
- Group 4 - Extra long staple cottons, carded at 4-1/2 pounds per hour and spun into combed 50s and 80s yarns with a twist multiplier of 3.60. This group includes all American Pima and American Upland extra long staple varieties, which are usually 1-5/16 inches or longer in staple length.

Samples of finisher drawing sliver from each spinning lot were bleached and dyed by a technique developed in the Cotton Division laboratories for small-scale finishing tests. Color tests were made on gray and chemically finished samples of finisher drawing sliver as measures of their bleaching and dyeing behavior.

DISCUSSION OF TEST RESULTS

U.S. Average - Upland Cotton

All short, medium and long staple cottons were included in the American Upland average. A total of 413 spinning lots was tested from the 1980 crop compared to 411 lots from the 1979 crop. Fiber test results showed the fibers to be shorter and slightly less uniform than those tested from the 1979 season. The average micronaire reading was higher. Zero gage fiber strength was higher than in the previous year, while 1/8-inch gage fiber strength remained the same. Both Shirley Analyzer non-lint content and picker and card waste were higher. Yarn quality declined from the past season as indicated by lower skein strength, lower average appearance index and reduced spinning potential (Table 1).

Group 1 - Short Staple Cottons

There were 104 short staple spinning lots tested from the 1980 cotton crop compared to 84 during the 1979 season. The fibers from these cottons tested shorter, slightly less uniform, and coarser. Zero gage fiber strength averaged higher while 1/8-inch gage strength was slightly lower. These samples contained a greater amount of waste as compared to the previous season, as indicated by a higher percentage of non-lint content and manufacturing waste. Both yarn strength and spinning potential were lower than in 1979. There were fewer neps in the yarn spun from these samples and the average appearance index remained unchanged.

Group 2 - Medium Staple Cottons

American Upland medium staple spinning lots from the 1980 crop totaled 295 compared to 304 lots from the 1979 season. Fiber tests on these cottons showed them to be shorter and slightly less uniform than those tested from the previous season. The average micronaire reading was higher. Fibers were stronger as indicated by increases in both zero gage and 1/8-inch gage fiber strength. Manufacturing waste was higher. The yarns spun from these cottons were weaker than those from the 1979 crop with a lower average appearance grade. The average spinning potential yarn number was lower. There were fewer neps per thousand yards of yarn compared to yarn tested from the 1979 crop.

The Southeastern production area includes the states of North Carolina, South Carolina, Georgia and Alabama. Thirty-five lots from the Southeastern area were tested from the 1980 crop compared to 39 from the 1979 crop. Laboratory tests showed the fibers to be shorter with a higher average micronaire reading. Zero gage fiber strength was higher while 1/8-inch gage remained the same. Both yarn strength and spinning potential number declined from the previous year.

The South Central production area includes the states of Tennessee, Missouri, Arkansas, Louisiana, and Mississippi. Ninety-two spinning lots were tested from the 1980 crop, compared to 98 from the 1979 crop. Fibers from these cottons were shorter and less uniform. The average micronaire reading was higher than in the previous season. Zero gage fiber strength was higher while 1/8-inch gage was unchanged. Manufacturing waste was higher than a year earlier. Yarn quality declined as indicated by lower skein strength, average appearance index and spinning potential yarn number. However, there were fewer neps in the yarn spun from these samples.

The Southwestern production area consists of the states of Oklahoma and Texas except for the far western portion of Texas served by the El Paso Marketing Services Office. A total of 64 spinning lots was tested from the 1980 crop compared to 58 from the 1979 crop. Test results showed the fibers from these cottons to be shorter and slightly coarser. Pressley zero gage fiber strength was slightly higher than a year earlier, but 1/8-inch gage strength was unchanged. Both non-lint content and manufacturing waste were higher than in samples from the previous season. Yarns spun from these samples were slightly weaker. Both yarn appearance and spinning potential were lower than in 1979. The yarn had fewer neps per thousand yards than in the preceding season.

The Western production area consists of Arizona, California, New Mexico and far west Texas. One hundred and four samples from the Western area were tested from the 1980 crop compared to 109 from the 1979 crop. Fiber tests showed these cottons to be slightly shorter, finer and stronger at zero gage break than those tested from the Western area during the previous year. Both non-lint content and picker and card waste increased. With the exception of lower appearance grades, yarn quality remained about the same.

Group 3 - Long Staple Cottons

Fourteen long staple American Upland spinning lots were tested in 1980 compared with 23 in 1979. Fiber tests showed these cottons to be shorter and coarser with the same average uniformity. The average zero gage fiber strength was higher while the 1/8-inch gage strength was slightly lower. Manufacturing waste was higher in the long staple samples from the 1980 crop. Yarn quality was down as indicated by lower average yarn strength, lower appearance grades and reduced spinning potential.

Nine long staple spinning lots from the Southeastern area were tested from the 1980 crop compared to 14 from the 1979 crop. The average fiber length was considerably shorter than a year earlier. The average micronaire reading remained the same. Fiber strength, when measured at zero gage break, was higher, while 1/8-inch gage strength averaged one gram per tex lower. Samples tested from the 1980 crop had a higher percentage of manufacturing waste. Yarns spun from these cottons were weaker with reduced spinning potential.

Three long staple spinning lots were tested from the South Central production area from the 1980 crop, the same number as tested from the 1979 crop. Fibrograph results showed the fibers from these cottons to be much shorter. They were slightly less uniform and coarser than those from the previous season. Both zero gage and 1/8-inch gage fiber strength were higher. Yarn strength declined from last season as well as spinning potential. The average nep count was lower.

Two long staple spinning lots were tested from the Western production area from the 1980 crop compared to 6 spinning lots from the previous year. Fiber test results showed these cottons to be much longer and coarser. However, fiber strength tests showed them to be slightly weaker. Shirley Analyzer non-lint content and manufacturing waste were a little higher in the 1980 crop cottons. Both yarn skein strength and appearance grades were higher. The average neps per thousand yards remained the same as in 1979. The spinning potential yarn number was higher.

Group 4 - Extra Long Staple

The number of American Pima extra long staple spinning lots tested from the 1980 crop declined to 15 compared with 18 lots from the 1979 crop. The average fiber length increased to 1.53 inches as measured by the array method. The average micronaire and fiber strengths were about the same as in the previous season. Both non-lint content and picker and card waste were slightly higher. Yarn strength increased slightly. There were more neps in the yarns spun from the 1980 crop cottons.

DESCRIPTION OF TABLES

Most of the tables are in two parts located on separate pages. The first page gives fiber measurements and the next gives yarn measurements. Using Table 5 as an example, the first spinning lot is from Byers, Texas. The fiber measurements are on page 31. The yarn measurements for that same lot are on the following page.

TABLE 1

Shown in Table 1 (page 11) are averages for fiber and processing test results from selected gin points for the 1979 and 1980 cotton crops. These data are grouped by staple and area.

TABLE 2

Table 2 shows the fiber and carded yarn properties by area, staple and state for the 1979 and 1980 crops. The "coarse" and "fine" headings in this table refer to different size yarns according to the staple group.

TABLE 3

Beginning on page 21, Table 3 shows 1980 crop data by staple, grade and area. For statistical purposes, only grade and staple combinations with 3 or more lots are reported.

TABLE 4

Table 4 gives fiber and yarn test results by variety from selected gin points. As indicated in the section on sampling procedures, the production areas selected must have at least 70 percent of one particular variety in order to be selected. In many cases a production area will be a 100 percent or "pure" variety gin. Test data for the pure varieties are presented in Table 4 to provide as meaningful information as possible for specific varieties.

TABLES 5 THROUGH 8

These tables show test results on individual spinning lots from each production area. Results on short, medium, long and extra long staple groups are given in Tables 5, 6, 7 and 8 respectively. Spinning results on short staple cottons spun on an open-end spinning frame are shown in Table 5a. Table 7a contains combed yarn quality characteristics of cotton in the long staple group.

TABLE 9

Table 9 is a new table presented for the first time this year. It gives the means and standard deviations for all test results by staple group. Data not reported in this summary is indicated by either a blank space or a dash (-) in place of the data. For instance, on page 90 of Table 9 there are no combed yarn data under short or medium staple groups. This summary does not report combed yarn data for these staple groups.

TABLES 10 THROUGH 12

These tables show the results of simple correlation analyses for fiber and processing tests. An explanation of simple correlations is contained in the section on "Description of Statistics Used in Analysis," page 109. To look up a particular correlation, find one of the variables in question in the heading and then read down the left margin until the second variable is located. The simple correlation coefficient is given at the intersection (i.e., the column and row intersection).

TABLES 13 THROUGH 15

A complete explanation of the multiple regression technique is given in the section, "Description of Statistics Used in Analysis," page 109.

Regression equations for estimating spinning performance and yarn quality (dependent variables) from fiber test measurements (independent variables) are shown in Tables 13-15. For each dependent variable, five equations were developed. The dependent variables are expressed in terms of:

- (1) The best one-independent variable equation
- (2) The best two-independent variable equation
- (3) The best three-independent variable equation
- (4) The best four-independent variable equation
- (5) The best five-independent variable equation

For example, Table 13, page 98, the best two-independent variable equation for total picker and card waste is expressed:

$$\text{Total picker and card waste} = 13.63 - .31(\text{staple}) + .85(\text{Shirley Analyzer non-lint})$$

The standard error of estimate and coefficient of determination (R^2) for this equation is .64 and .69, respectively. This R^2 indicates that 69 per cent of the variation in total picker and card waste is explained by staple and Shirley Analyzer non-lint content.

The best five-independent variable equation for total picker and card waste is expressed:

$$\text{Total picker and card waste} = 10.32 - .02(\text{grade}) - .28(\text{staple}) + .09(\text{uniformity}) + .29(\text{micronaire}) + .79(\text{Shirley Analyzer non-lint})$$

The standard error of estimate and R^2 for this equation are .62 and .72, respectively. These five independent variables explain 72 percent of the variation in total picker and card waste. This example shows that adding grade, uniformity and micronaire to the regression equation explained only three percent more of the variation in total picker and card waste than staple and Shirley Analyzer non-lint in the two-independent variable equation.

An independent variable may be selected for one equation and then not selected for the next equation. This is a result of the regression technique used. The technique used attempts to maximize R^2 by selecting the best combination of independent variables. An independent variable is selected based on its contribution in explaining the variation in the dependent variable. A variable's contribution may be influenced by the introduction of other variables into the equation. For example, page 105, with neps 22s yarn as the dependent variable, zero gage fiber strength was selected as the independent variable which gave the best R-square (.31) for a one-variable equation. However, the equation on the next line shows the two-independent variables with the best R-square to be 1/8-inch fiber strength and the +b of color of raw stock. In this case, zero gage fiber strength was dropped from the two-variable equation. However, on the next line, both zero gage and 1/8-inch gage strength along with the +b of the color of the raw stock were included in the three-variable model.

TABLE 16

This table gives the standard machine settings and laboratory atmospheric conditions for each phase of yarn processing used in these tests. The data are grouped by staple lengths.

TABLE 1.--COTTON: AVERAGE RESULTS OF CLASSIFICATION, FIBER, AND PROCESSING TESTS FROM SELECTED GIN POINTS, CROPS OF 1979 AND 1980.

| AREA AND CROP YEAR | NO. OF LOTS | FIBER TESTS RESULTS | | | | | PROCESSING TESTS RESULTS | | | | | | |
|---------------------------------|-------------------|---------------------|--------------|----------------|-----------------|--------------------------------|---------------------------|--------------------------|---------------------------|---------------------|------------|-------|------------|
| | | CLASSIFICATION | FIBER LENGTH | FIBER STRENGTH | MICRO- NAIRE | SHIRLEY ANALYZER NONLINT | PICKER & CARD WASTE | SKEIN STRENGTH 22s | YARN APPEARANCE 22s | YARN NEPS 22s | SPY NO. | INDEX | NO. NO. |
| | | GRADE : STAPLE | SPAN : UNIF. | 2.5% : 50/2.5 | ZERO : 1/8" | GAGE : GAGE | | | | | | | |
| | | INDEX | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | LBS. | | |
| SHORT STAPLE - AMERICAN UPLAND | | | | | | | | | | | | | |
| SOUTHWEST | | | | | | | | | | | | | |
| 1979 | 84 | 93 | 32.0 | 1.00 | 45 | 35 | 83 | 22 | 3.7 | 6.1 | 101 | 111 | 49 |
| 1980 | 104 | 88 | 31.1 | 0.98 | 44 | 41 | 88 | 21 | 4.6 | 7.9 | 94 | 111 | 44 |
| MEDIUM STAPLE - AMERICAN UPLAND | | | | | | | | | | | | | |
| SOUTHEAST | | | | | | | | | | | | | |
| 1979 | 39 | 89 | 34.9 | 1.09 | 45 | 44 | 83 | 23 | 3.6 | 7.2 | 102 | 97 | 55 |
| 1980 | 35 | 88 | 34.0 | 1.06 | 44 | 46 | 91 | 23 | 3.4 | 7.4 | 98 | 96 | 48 |
| SOUTH CENTRAL | | | | | | | | | | | | | |
| 1979 | 98 | 93 | 35.6 | 1.12 | 45 | 42 | 84 | 23 | 3.2 | 6.6 | 112 | 98 | 62 |
| 1980 | 92 | 89 | 34.8 | 1.09 | 43 | 47 | 92 | 23 | 3.3 | 7.3 | 98 | 96 | 48 |
| SOUTHWEST | | | | | | | | | | | | | |
| 1979 | 58 | 93 | 33.3 | 1.05 | 45 | 39 | 84 | 22 | 3.4 | 7.3 | 101 | 93 | 52 |
| 1980 | 64 | 92 | 32.2 | 1.02 | 44 | 40 | 86 | 22 | 3.6 | 7.5 | 99 | 89 | 47 |
| WEST | | | | | | | | | | | | | |
| 1979 | 109 | 98 | 35.3 | 1.11 | 45 | 44 | 91 | 25 | 2.2 | 6.3 | 117 | 97 | 62 |
| 1980 | 104 | 98 | 35.4 | 1.10 | 44 | 43 | 93 | 25 | 2.6 | 6.5 | 118 | 79 | 63 |
| U. S. AVERAGE MEDIUM STAPLE | | | | | | | | | | | | | |
| 1979 | 304 | 94 | 35.0 | 1.10 | 45 | 42 | 86 | 23 | 2.9 | 6.7 | 110 | 97 | 59 |
| 1980 | 295 | 93 | 34.3 | 1.07 | 44 | 44 | 91 | 24 | 3.1 | 7.0 | 105 | 88 | 53 |

TABLE 1.--CONTINUED

| AREA AND CROP YEAR | NO. OF LOTS | FIBER TESTS RESULTS | | | | | | | | | | PROCESSING TESTS RESULTS | | | | | |
|-----------------------------------|-------------------|---------------------|--------------|------------------|-------------------|---------------------|---------------------------|--------------------------|---------------------------|---------------------|------------|--------------------------|------------------|------|------|-------|------|
| | | CLASSIFICATION | FIBER LENGTH | FIBER STRENGTH | | SHIRLEY ANALYZER | PICKER & CARD WASTE | SKEIN STRENGTH 22s | YARN APPEARANCE 22s | YARN NEPS 22s | SPY NO. | | | | | | |
| | | | | 2.5% : SPAN : | 50/2.5 UNIF. : | | | | | | | MICRO- NAIRE | GAGE : GAGE : | RDG. | MPSI | G/TEX | PCT. |
| LONG STAPLE - AMERICAN UPLAND | | | | | | | | | | | | | | | | | |
| SOUTHEAST | | | | | | | | | | | | | | | | | |
| 1979 | 14 | 90 | 35.6 | 1.13 | 44 | 43 | 85 | 24 | 3.4 | 8.2 | 109 | 106 | 24 | 64 | | | |
| 1980 | 9 | 87 | 33.7 | 1.05 | 43 | 43 | 90 | 23 | 3.5 | 8.8 | 90 | 106 | 26 | 46 | | | |
| SOUTH CENTRAL | | | | | | | | | | | | | | | | | |
| 1979 | 3 | 87 | 37.3 | 1.18 | 45 | 39 | 88 | 24 | 4.4 | 8.7 | 127 | 120 | 29 | 79 | | | |
| 1980 | 3 | 89 | 36.0 | 1.12 | 44 | 47 | 92 | 26 | 3.2 | 8.5 | 105 | 127 | 9 | 57 | | | |
| WEST | | | | | | | | | | | | | | | | | |
| 1979 | 6 | 99 | 36.5 | 1.13 | 44 | 37 | 93 | 27 | 2.4 | 7.3 | 134 | 107 | 31 | 83 | | | |
| 1980 | 2 | 95 | 37.0 | 1.18 | 46 | 40 | 90 | 26 | 2.7 | 7.6 | 138 | 115 | 31 | 99 | | | |
| U. S. AVERAGE | | | | | | | | | | | | | | | | | |
| LONG STAPLE | | | | | | | | | | | | | | | | | |
| 1979 | 23 | 92 | 36.1 | 1.14 | 44 | 41 | 88 | 25 | 3.3 | 8.1 | 118 | 113 | 27 | 71 | | | |
| 1980 | 14 | 89 | 34.6 | 1.09 | 44 | 43 | 91 | 24 | 3.3 | 8.6 | 100 | 111 | 23 | 56 | | | |
| U. S. UPLAND AVERAGE | | | | | | | | | | | | | | | | | |
| 1979 | 411 | 94 | 34.4 | 1.08 | 45 | 41 | 86 | 23 | 3.2 | 6.6 | 109 | 100 | 86 | 58 | | | |
| 1980 | 413 | 91 | 33.5 | 1.05 | 44 | 43 | 90 | 23 | 3.5 | 7.3 | 102 | 95 | 70 | 51 | | | |
| EXTRA LONG STAPLE - AMERICAN PIMA | | | | | | | | | | | | | | | | | |
| WEST | | | | | | | | | | | | | | | | | |
| 1979 | 18 | 3 | 45.8 | 1.45 | 35 | 39 | 104 | 34 | 3.1 | 7.5 | 65 | 127 | 51 | 15.1 | | | |
| 1980 | 15 | 3 | 46.1 | 1.53 | 31 | 38 | 103 | 35 | 3.4 | 7.8 | 68 | 121 | 82 | 15.3 | | | |

TABLE 2.--COTTON: AVERAGE RESULTS OF CLASSIFICATION, FIBER TESTS, AND CARDED YARN PROCESSING TESTS BY AREA, STAPLE AND STATE FOR AMERICAN UPLAND SAMPLES FROM SELECTED GIN POINTS, CROPS OF 1979 AND 1980.

| AREA, STATE AND CROP YEAR | NO. OF LOTS | CLASSIFICATION | | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK* | | PICKER & CARD WASTE | SPY NO. |
|---------------------------------|-------------------|------------------|----------|-----------------|-----------------|-----------------|-------------------|----------------|----------------------|--------------------------------|------------------------|----|---------------------------|------------|
| | | GRADE : INDEX | 32ND IN. | 2.5% SPAN | 50/2.5 UNIF. | | ZERO : GAGE | 1/8" : GAGE | | | Rd | +b | | |
| SOUTHEAST | | | | | | | | | | | | | | |
| MEDIUM STAPLE: ----- | | | | | | | | | | | | | | |
| ALABAMA | 22 | 91 | 35.0 | 1.09 | 46 | 44 | 82 | 23 | 7.6 | 3.4 | | | | |
| 1979 | 21 | 89 | 34.4 | 1.07 | 44 | 46 | 90 | 23 | 6.0 | 3.2 | | | | |
| 1980 | | | | | | | | | | | | | | |
| GEORGIA | 9 | 84 | 34.2 | 1.07 | 44 | 45 | 82 | 21 | 6.4 | 4.1 | | | | |
| 1979 | 8 | 85 | 32.5 | 1.01 | 44 | 45 | 94 | 23 | 5.3 | 3.6 | | | | |
| 1980 | | | | | | | | | | | | | | |
| NORTH CAROLINA | 4 | 87 | 35.0 | 1.10 | 45 | 44 | 85 | 23 | 6.4 | 4.3 | | | | |
| 1979 | 3 | 83 | 34.7 | 1.08 | 44 | 43 | 94 | 25 | 5.6 | 4.2 | | | | |
| 1980 | | | | | | | | | | | | | | |
| SOUTH CAROLINA | 4 | 92 | 36.0 | 1.11 | 44 | 45 | 86 | 22 | 6.3 | 2.9 | | | | |
| 1979 | 3 | 91 | 34.3 | 1.11 | 44 | 44 | 90 | 24 | 5.7 | 3.1 | | | | |
| 1980 | | | | | | | | | | | | | | |
| LONG STAPLE: ----- | | | | | | | | | | | | | | |
| GEORGIA | 3 | 88 | 35.3 | 1.12 | 43 | 47 | 85 | 24 | 6.9 | 4.3 | | | | |
| 1979 | 3 | 87 | 33.3 | 1.04 | 43 | 45 | 93 | 23 | 5.5 | 3.3 | | | | |
| 1980 | | | | | | | | | | | | | | |
| NORTH CAROLINA | 3 | 94 | 35.3 | 1.14 | 44 | 44 | 85 | 24 | 6.5 | 2.3 | | | | |
| 1979 | 3 | 86 | 34.3 | 1.07 | 43 | 42 | 88 | 23 | 5.7 | 3.2 | | | | |
| 1980 | | | | | | | | | | | | | | |
| SOUTH CAROLINA | 3 | 91 | 36.3 | 1.12 | 43 | 39 | 85 | 23 | 6.3 | 4.2 | | | | |
| 1979 | 3 | 88 | 33.3 | 1.06 | 43 | 42 | 90 | 23 | 5.6 | 4.0 | | | | |
| 1980 | | | | | | | | | | | | | | |

* REPORTED AS AN INDEX IN 1979.

TABLE 2. --CONTINUED

| AREA, STATE AND CROP YEAR | NO. OF LOTS | YARN PROPERTIES | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|---------------------------------|-------------------|-----------------|------|------------|------|------------|-------|----------------------------------|------|----------|-------|------|-------|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | BLEACHED | | DYED | |
| | | COARSE | FINE | COARSE | FINE | COARSE | FINE | COARSE | FINE | Rd | +b | Rd | +b |
| | | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS |
| SOUTHEAST | | | | | | | | | | | | | |
| MEDIUM STAPLE: | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| ALABAMA | | | | | | | | | | | | | |
| 1979 | 22 | 108 | 37 | 7.0 | 5.6 | 100 | 68 | 110 | 344 | 83.5 | 3.6 | 26.4 | 24.2 |
| 1980 | 21 | 99 | 32 | 6.1 | 4.8 | 99 | 65 | 70 | 320 | 91.1 | 4.9 | 27.1 | 32.8 |
| GEORGIA | | | | | | | | | | | | | |
| 1979 | 9 | 87 | 29 | 5.6 | 4.6 | 89 | 62 | 111 | 403 | 83.3 | 3.8 | 27.6 | 23.6 |
| 1980 | 8 | 86 | 27 | 5.3 | 4.6 | 92 | 66 | 81 | 290 | 89.5 | 5.6 | 27.3 | 32.1 |
| NORTH CAROLINA | | | | | | | | | | | | | |
| 1979 | 4 | 108 | 36 | 6.4 | 4.8 | 105 | 65 | 90 | 286 | 83.2 | 3.5 | 26.6 | 24.1 |
| 1980 | 3 | 110 | 37 | 6.3 | 5.0 | 87 | 67 | 80 | 361 | 91.2 | 4.8 | 28.1 | 32.1 |
| SOUTH CAROLINA | | | | | | | | | | | | | |
| 1979 | 4 | 93 | 31 | 5.5 | 4.1 | 92 | 62 | 134 | 479 | 84.0 | 3.0 | 27.5 | 24.0 |
| 1980 | 3 | 110 | 38 | 6.3 | 4.9 | 93 | 60 | 78 | 453 | 90.8 | 4.8 | 27.7 | 32.5 |
| LONG STAPLE: | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| GEORGIA | | | | | | | | | | | | | |
| 1979 | 3 | 104 | 35 | 5.9 | 4.8 | 117 | 93 | 19 | 177 | 82.4 | 3.6 | 27.1 | 24.0 |
| 1980 | 3 | 82 | 26 | 5.2 | 4.4 | 110 | 73 | 15 | 110 | 90.1 | 5.8 | 27.7 | 32.1 |
| NORTH CAROLINA | | | | | | | | | | | | | |
| 1979 | 3 | 108 | 37 | 6.4 | 5.4 | 120 | 90 | 17 | 97 | 83.6 | 3.5 | 27.1 | 23.7 |
| 1980 | 3 | 94 | 30 | 5.5 | 4.4 | 103 | 70 | 27 | 183 | 91.2 | 4.8 | 29.2 | 31.5 |
| SOUTH CAROLINA | | | | | | | | | | | | | |
| 1979 | 3 | 105 | 36 | 6.0 | 4.6 | 103 | 63 | 33 | 281 | 84.4 | 3.4 | 27.5 | 23.6 |
| 1980 | 3 | 92 | 30 | 5.4 | 4.2 | 103 | 70 | 35 | 243 | 90.2 | 4.6 | 28.7 | 31.7 |

TABLE 2.--CONTINUED

| AREA, STATE AND CROP YEAR | NO. OF LOTS | CLASSIFICATION | | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK* | | PICKER & CARD WASTE | SPY NO. |
|---------------------------------|-----------------------|----------------|--------------|-----------------|-----------------|-----------------|-------------------|--------------|-------------------------|--------------------------------|------------------------|-----|---------------------------|------------|
| | | GRADE : | 32ND IN. | 2.5% SPAN | 50/2.5 UNIF. | | ZERO : | 1/8" GAGE | | | Rd | +b | | |
| | | | | | | | | | | | | | | |
| SOUTH CENTRAL | | | | | | | | | | | | | | |
| MEDIUM STAPLE: ----- | | | | | | | | | | | | | | |
| ARKANSAS 1979 1980 | 20 29 | 95 87 | 35.6 34.7 | 1.12 1.09 | 45 43 | 43 47 | 84 93 | 23 23 | 7.1 5.6 | 2.7 3.6 | 70.9 | 8.8 | 6.2 7.3 | 60 49 |
| | 16 16 | 91 93 | 35.2 34.4 | 1.10 1.08 | 44 43 | 41 47 | 83 92 | 23 23 | 7.1 5.7 | 3.4 2.7 | 75.3 | 8.4 | 6.8 6.9 | 59 49 |
| MISSISSIPPI 1979 1980 | 48 32 | 93 88 | 35.5 35.1 | 1.12 1.10 | 45 43 | 42 46 | 83 92 | 22 23 | 7.2 5.5 | 3.4 3.6 | 72.0 | 8.4 | 6.9 7.5 | 63 50 |
| | 6 6 | 94 94 | 36.0 35.2 | 1.10 1.09 | 45 43 | 44 49 | 86 94 | 23 23 | 6.9 5.6 | 2.7 3.1 | 74.4 | 9.1 | 5.9 6.7 | 64 50 |
| TENNESSEE 1979 1980 | 8 9 | 94 88 | 35.2 34.1 | 1.10 1.05 | 45 43 | 39 48 | 84 91 | 23 22 | 7.2 5.2 | 2.9 2.9 | 72.1 | 9.1 | 6.3 7.4 | 62 41 |
| | LONG STAPLE: ----- | | | | | | | | | | | | | |
| MISSOURI 1979 1980 | 3 | 89 | 36.0 | 1.12 | 44 | 47 | 92 | 26 | 5.9 | 3.2 | 71.9 | 9.1 | 8.5 | 57 |

* REPORTED AS AN INDEX IN 1979.

TABLE 2. --CONTINUED

| AREA, STATE AND CROP YEAR | NO. OF LOTS | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | |
|---------------------------------|-------------------|-----------------|------|------------|------|------------|----------|------|----------|----------|-----|----------------------------------|------|-----|-----|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | BLEACHED | | DYED | | | |
| | | COARSE : | FINE | COARSE : | FINE | FINE | COARSE : | FINE | COARSE : | FINE | Rd | +b | Rd | -b | |
| | | | PCT. | | PCT. | | INDEX | | | INDEX | | | | NO. | NO. |
| SOUTH CENTRAL | | | | | | | | | | | | | | | |
| MEDIUM STAPLE: | | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | |
| ARKANSAS | | | | | | | | | | | | | | | |
| 1979 | 20 | 111 | 37 | 6.9 | 5.4 | 102 | 69 | 89 | 321 | 83.6 | 3.3 | 26.3 | 24.9 | | |
| 1980 | 29 | 98 | 32 | 5.8 | 4.5 | 94 | 66 | 76 | 337 | 90.4 | 4.8 | 27.0 | 32.7 | | |
| LOUISIANA | | | | | | | | | | | | | | | |
| 1979 | 16 | 107 | 36 | 6.7 | 5.2 | 92 | 65 | 112 | 384 | 83.6 | 3.2 | 26.9 | 24.6 | | |
| 1980 | 16 | 98 | 33 | 5.9 | 4.9 | 93 | 64 | 77 | 371 | 91.3 | 4.5 | 26.6 | 33.1 | | |
| MISSISSIPPI | | | | | | | | | | | | | | | |
| 1979 | 48 | 111 | 39 | 7.1 | 5.6 | 97 | 65 | 103 | 365 | 83.8 | 3.2 | 26.4 | 24.5 | | |
| 1980 | 32 | 101 | 33 | 5.9 | 4.6 | 97 | 67 | 69 | 350 | 90.9 | 4.7 | 27.0 | 32.9 | | |
| MISSOURI | | | | | | | | | | | | | | | |
| 1979 | 6 | 115 | 38 | 6.8 | 5.2 | 103 | 75 | 93 | 234 | 83.0 | 3.4 | 26.8 | 25.8 | | |
| 1980 | 6 | 101 | 32 | 6.0 | 4.7 | 102 | 73 | 68 | 302 | 89.6 | 5.3 | 26.4 | 33.2 | | |
| TENNESSEE | | | | | | | | | | | | | | | |
| 1979 | 8 | 116 | 40 | 7.2 | 5.6 | 106 | 66 | 87 | 262 | 84.2 | 3.6 | 26.2 | 24.1 | | |
| 1980 | 9 | 91 | 29 | 5.4 | 4.3 | 99 | 68 | 53 | 266 | 91.0 | 5.0 | 26.7 | 32.9 | | |
| LONG STAPLE: | | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | |
| MISSOURI | | | | | | | | | | | | | | | |
| 1979 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1980 | 3 | 105 | 34 | 6.0 | 4.6 | 127 | 87 | 9 | 94 | 90.6 | 4.5 | 26.7 | 32.9 | | |

TABLE 2.--CONTINUED

| AREA, STATE AND CROP YEAR | NO. OF LOTS | CLASSIFICATION | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK* | | PICKER & CARD WASTE | SPY NO. | | |
|---------------------------------|-------------------|----------------|-------------------|----------|-----------------|-------------------|------|-------------------------|--------------------------------|------------------------|------|---------------------------|------------|-------|------|
| | | | GRADE : STAPLE | 32ND IN. | | IN. | PCT. | | | RDG. | MPSI | | | G/TEX | PCT. |
| SOUTHWEST | | | | | | | | | | | | | | | |
| SHORT STAPLE: ----- | | | | | | | | | | | | | | | |
| CENTRAL TEXAS | 27 | 92 | 33.1 | 1.03 | 45 | 83 | 21 | 7.2 | 3.7 | 73.5 | 10.0 | 6.2 | 51 | | |
| | 21 | 93 | 29.5 | 0.95 | 44 | 92 | 20 | 5.5 | 3.4 | | | | | 7.3 | 35 |
| | 1980 | | | | | | | | | | | | | | |
| NORTHWEST TEXAS | 51 | 93 | 31.2 | 0.99 | 45 | 84 | 22 | 7.6 | 3.8 | 72.4 | 9.6 | 6.4 | 47 | | |
| | 74 | 86 | 31.5 | 0.97 | 44 | 86 | 22 | 6.4 | 4.9 | | | | | 8.0 | 47 |
| | 1980 | | | | | | | | | | | | | | |
| OKLAHOMA | 3 | 94 | 32.3 | 1.00 | 45 | 82 | 23 | 8.2 | 3.1 | 74.5 | 9.6 | 5.6 | 51 | | |
| | 9 | 94 | 31.3 | 0.97 | 43 | 90 | 22 | 6.1 | 4.6 | | | | | 7.9 | 42 |
| | 1980 | | | | | | | | | | | | | | |
| MEDIUM STAPLE: ----- | | | | | | | | | | | | | | | |
| SOUTH TEXAS | 32 | 93 | 33.9 | 1.06 | 46 | 84 | 22 | 6.3 | 3.2 | 75.3 | 9.7 | 6.9 | 56 | | |
| | 34 | 94 | 31.9 | 1.01 | 45 | 85 | 22 | 5.7 | 3.1 | | | | | 7.2 | 46 |
| | 1980 | | | | | | | | | | | | | | |
| CENTRAL TEXAS | 6 | 94 | 35.3 | 1.10 | 45 | 84 | 23 | 7.2 | 2.5 | 75.9 | 9.0 | 5.8 | 62 | | |
| | 1979 | 95 | 34.3 | 1.08 | 45 | 88 | 23 | 6.0 | 2.4 | | | | | 6.2 | 52 |
| | 1980 | | | | | | | | | | | | | | |
| NORTHWEST TEXAS | 20 | 94 | 31.8 | 1.01 | 44 | 85 | 23 | 7.2 | 4.0 | 75.0 | 9.1 | 8.5 | 44 | | |
| | 1979 | 88 | 32.2 | 1.02 | 44 | 86 | 23 | 6.6 | 4.6 | | | | | 8.3 | 48 |
| | 1980 | | | | | | | | | | | | | | |

* REPORTED AS AN INDEX IN 1979.

TABLE 2.--CONTINUED

| AREA, STATE AND CROP YEAR | NO. OF LOTS | CLASSIFICATION | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK* | | PICKER & CARD WASTE | SPY NO. |
|---------------------------------|-------------------|----------------|-----------------|--------|-----------------|-------------------|---------------|-------------------------|--------------------------------|------------------------|--------------|---------------------------|------------|
| | | | GRADE : | STAPLE | | SPAN : | 2.5% UNIF. | | | ZERO : | 1/8" GAGE | | |
| ----- | | | | | | | | | | | | | |
| NO. | INDEX | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | UNITS | PCT. | NO. | |
| ----- | | | | | | | | | | | | | |
| WEST | | | | | | | | | | | | | |
| MEDIUM STAPLE: | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| ARIZONA | 37 | 100 | 34.8 | 1.09 | 44 | 46 | 86 | 23 | 6.9 | 2.2 | | 6.4 | 50 |
| | 28 | 99 | 34.9 | 1.09 | 42 | 45 | 88 | 23 | 6.0 | 2.7 | 80.2 | 6.7 | 52 |
| | | | | | | | | | | | | | |
| CALIFORNIA | 72 | 98 | 35.6 | 1.12 | 45 | 43 | 94 | 26 | 6.3 | 2.2 | | 6.2 | 68 |
| | 73 | 99 | 35.6 | 1.11 | 45 | 43 | 95 | 26 | 5.9 | 2.4 | 79.5 | 6.2 | 68 |
| | | | | | | | | | | | | | |
| WEST TEXAS | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 3 | 79 | 35.0 | 1.06 | 44 | 44 | 87 | 21 | 5.4 | 5.8 | 72.0 | 9.6 | 57 |
| | | | | | | | | | | | | | |
| LONG STAPLE: | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| WEST TEXAS | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2 | 95 | 37.0 | 1.18 | 46 | 40 | 90 | 26 | 6.4 | 2.7 | 77.6 | 7.9 | 99 |

* REPORTED AS AN INDEX IN 1979.

TABLE 2.--CONTINUED

| AREA, STATE AND CROP YEAR | NO. OF LOTS | YARN PROPERTIES | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|---------------------------------|-------------------|-----------------|------|------------|------|------------|-------|----------------------------------|------|----------|-------|------|-------|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | BLEACHED | | DYED | |
| | | COARSE | FINE | COARSE | FINE | COARSE | FINE | COARSE | FINE | Rd | +b | Rd | -b |
| | | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS |
| WEST | | | | | | | | | | | | | |
| MEDIUM STAPLE: | | | | | | | | | | | | | |
| ARIZONA | | | | | | | | | | | | | |
| 1979 | 37 | 101 | 33 | 6.2 | 5.0 | 101 | 65 | 71 | 343 | 83.4 | 3.2 | 26.7 | 24.7 |
| 1980 | 28 | 101 | 33 | 6.1 | 4.7 | 82 | 60 | 75 | 375 | 91.9 | 4.4 | 27.5 | 32.8 |
| CALIFORNIA | | | | | | | | | | | | | |
| 1979 | 72 | 125 | 46 | 6.4 | 5.3 | 96 | 65 | 120 | 354 | 83.0 | 3.3 | 26.8 | 24.1 |
| 1980 | 73 | 124 | 44 | 6.2 | 5.1 | 78 | 61 | 120 | 394 | 91.5 | 4.5 | 27.8 | 32.4 |
| WEST TEXAS | | | | | | | | | | | | | |
| 1979 | 3 | 107 | 36 | 5.7 | 4.5 | 80 | 63 | 60 | 330 | 92.4 | 4.4 | 28.4 | 32.0 |
| 1980 | | | | | | | | | | | | | |
| LONG STAPLE: | | | | | | | | | | | | | |
| WEST TEXAS | | | | | | | | | | | | | |
| 1979 | 2 | 138 | 52 | 6.6 | 5.6 | 115 | 80 | 31 | 148 | 91.4 | 4.8 | 29.1 | 31.4 |
| 1980 | | | | | | | | | | | | | |

TABLE 3.--COTTON: AVERAGE RESULTS OF FIBER AND CARDED YARN PROCESSING TESTS BY STAPLE GROUP, AREA, GRADE AND STAPLE FOR AMERICAN UPLAND SAMPLES FROM SELECTED GIN POINTS, CROPS OF 1979 AND 1980.

| STAPLE GROUP, AREA, GRADE AND STAPLE | 32ND IN. | CODE | NO. | NO. OF LOTS | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | PICKER & CARD WASTE | SPY NO. |
|--|-------------|------|-----|-------------------|-----------------|-----------------|-----------------|-------------------|----------------|-------------------------|--------------------------------|-----------------------|-------|---------------------------|------------|
| | | | | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO : GAGE | 1/8" : GAGE | | | Rd | +b | | |
| NAME | | | | | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | PCT. | NO. |
| SHORT STAPLE GROUP | | | | | | | | | | | | | | | |
| SOUTHWEST: | | | | | | | | | | | | | | | |
| MID LT SP | 29 | 32 | | 5 | 0.93 | 44 | 42 | 92 | 20 | 5.6 | 2.6 | 73.5 | 10.5 | 6.8 | 32 |
| | 32 | | | 3 | 0.97 | 44 | 41 | 88 | 21 | 6.0 | 4.5 | 73.9 | 9.4 | 7.6 | 45 |
| SLM | 29 | 41 | | 4 | 0.96 | 45 | 45 | 93 | 20 | 5.4 | 3.3 | 75.8 | 9.8 | 7.4 | 35 |
| | 32 | | | 4 | 1.00 | 44 | 42 | 84 | 22 | 6.9 | 3.4 | 76.4 | 8.8 | 6.8 | 48 |
| SLM LT SP | 30 | 42 | | 10 | 0.94 | 44 | 42 | 89 | 21 | 6.0 | 4.3 | 73.2 | 9.7 | 7.9 | 39 |
| | 31 | | | 13 | 0.97 | 44 | 42 | 87 | 21 | 6.4 | 4.8 | 73.2 | 9.7 | 8.1 | 43 |
| | 32 | | | 23 | 1.00 | 44 | 40 | 87 | 22 | 6.3 | 4.6 | 76.0 | 9.3 | 7.6 | 48 |
| | 33 | | | 3 | 1.00 | 45 | 41 | 93 | 22 | 5.5 | 5.1 | 74.3 | 9.4 | 8.2 | 52 |
| SLM SP | 31 | 43 | | 7 | 0.97 | 43 | 42 | 84 | 21 | 6.5 | 5.0 | 68.5 | 10.0 | 8.1 | 42 |
| | 32 | | | 4 | 1.01 | 44 | 38 | 84 | 22 | 6.5 | 5.2 | 70.0 | 10.7 | 8.4 | 50 |
| LM LT SP | 32 | 52 | | 4 | 1.01 | 43 | 40 | 84 | 22 | 6.5 | 5.9 | 71.7 | 9.4 | 8.2 | 50 |
| LM SP | 32 | 53 | | 6 | 1.00 | 42 | 41 | 86 | 21 | 6.4 | 5.4 | 69.7 | 9.8 | 8.2 | 50 |
| MEDIUM STAPLE GROUP | | | | | | | | | | | | | | | |
| SOUTHEAST: | | | | | | | | | | | | | | | |
| SLM | 34 | 41 | | 3 | 1.08 | 45 | 44 | 89 | 24 | 6.3 | 3.3 | 74.4 | 8.9 | 6.9 | 53 |
| | 35 | | | 5 | 1.10 | 43 | 45 | 89 | 23 | 6.1 | 2.7 | 72.5 | 9.4 | 6.7 | 53 |
| SLM LT SP | 34 | 42 | | 7 | 1.06 | 42 | 46 | 90 | 22 | 6.1 | 2.9 | 71.0 | 9.5 | 7.1 | 44 |
| LM LT SP | 34 | 52 | | 4 | 1.06 | 45 | 47 | 94 | 24 | 5.7 | 4.2 | 72.2 | 9.8 | 7.5 | 53 |

TABLE 3.--CONTINUED

| STAPLE GROUP, AREA, GRADE AND STAPLE | NO. OF LOTS | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | |
|--|-------------------|-----------------|-----|------------|------|------------|------|-------|-------|----------|-----|----------------------------------|-------|------|-------|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | BLEACHED | | DYED | | | |
| NAME | CODE | 32ND | IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS |
| SHORT STAPLE GROUP | | | | | | | | | | | | | | | |
| SOUTHWEST: | | | | | | | | | | | | | | | |
| MID LT SP | 32 | 29 | | 260 | 82 | 6.8 | 5.9 | 116 | 106 | 8 | 48 | 91.6 | 5.6 | 27.0 | 32.5 |
| | | 32 | | 303 | 98 | 7.3 | 6.4 | 117 | 113 | 7 | 31 | 91.7 | 5.3 | 27.6 | 32.2 |
| SLM | 41 | 29 | | 265 | 84 | 6.0 | 5.4 | 118 | 115 | 20 | 72 | 92.3 | 5.0 | 27.1 | 32.7 |
| | | 32 | | 306 | 98 | 7.8 | 6.7 | 122 | 118 | 4 | 28 | 91.3 | 4.9 | 28.6 | 31.6 |
| SLM LT SP | 42 | 30 | | 286 | 91 | 7.2 | 6.3 | 120 | 112 | 5 | 29 | 90.1 | 5.5 | 28.3 | 31.4 |
| | | 31 | | 299 | 94 | 7.4 | 6.4 | 116 | 109 | 8 | 43 | 90.6 | 5.3 | 27.7 | 32.2 |
| | | 32 | | 313 | 100 | 7.7 | 6.7 | 120 | 112 | 6 | 26 | 91.3 | 5.0 | 28.5 | 31.7 |
| | | 33 | | 319 | 107 | 7.3 | 6.2 | 123 | 113 | 4 | 32 | 90.8 | 5.4 | 28.2 | 31.7 |
| SLM SP | 43 | 31 | | 288 | 92 | 7.6 | 6.6 | 111 | 117 | 6 | 35 | 89.6 | 5.6 | 27.8 | 31.8 |
| | | 32 | | 307 | 97 | 7.9 | 6.7 | 115 | 100 | 7 | 44 | 91.4 | 5.2 | 27.9 | 32.0 |
| LM LT SP | 52 | 32 | | 312 | 101 | 7.9 | 6.9 | 108 | 108 | 9 | 23 | 91.1 | 5.0 | 30.3 | 30.5 |
| LM SP | 53 | 32 | | 303 | 98 | 7.6 | 6.7 | 118 | 102 | 6 | 38 | 90.4 | 5.3 | 28.8 | 31.5 |
| MEDIUM STAPLE GROUP | | | | | | | | | | | | | | | |
| SOUTHEAST: | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | | 104 | 35 | 6.5 | 5.1 | 93 | 67 | 83 | 458 | 91.4 | 4.5 | 26.7 | 33.2 |
| | | 35 | | 103 | 35 | 6.4 | 4.9 | 96 | 64 | 74 | 371 | 90.6 | 5.2 | 26.5 | 33.2 |
| SLM LT SP | 42 | 34 | | 92 | 30 | 5.9 | 4.7 | 99 | 60 | 55 | 297 | 90.9 | 4.9 | 28.0 | 32.3 |
| LM LT SP | 52 | 34 | | 106 | 36 | 6.1 | 4.8 | 105 | 75 | 52 | 250 | 90.9 | 5.1 | 27.1 | 32.4 |

TABLE 3.--CONTINUED

| STAPLE GROUP, AREA, GRADE AND STAPLE | NO. OF LOTS | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | PICKER & CARD WASTE | SPY NO. | | |
|--|-------------------|-----------------|-----------------|-----------------|-------------------|---------------|-------------------------|--------------------------------|-----------------------|-------|---------------------------|------------|-----|----|
| | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO : GAGE | 1/8" G/TEX | | | Rd | +b | | | | |
| | | | | | | | | | | | | | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | UNITS | PCT. | NO. | | |
| MEDIUM STAPLE GROUP | | | | | | | | | | | | | | |
| SOUTH CENTRAL: | | | | | | | | | | | | | | |
| MID | 31 | 35 | 4 | 1.11 | 44 | 50 | 89 | 25 | 6.4 | 2.4 | 77.2 | 8.9 | 5.9 | 56 |
| SLM | 41 | 34 | 9 | 1.08 | 43 | 47 | 93 | 23 | 5.6 | 2.9 | 75.5 | 8.5 | 7.0 | 48 |
| | | 35 | 20 | 1.08 | 44 | 48 | 93 | 23 | 5.6 | 2.9 | 75.1 | 8.7 | 7.0 | 48 |
| | | 36 | 3 | 1.11 | 44 | 46 | 91 | 23 | 5.4 | 3.0 | 76.0 | 8.4 | 7.0 | 51 |
| SLM LT SP | 42 | 34 | 9 | 1.06 | 43 | 47 | 90 | 22 | 5.4 | 2.8 | 71.6 | 8.9 | 7.0 | 42 |
| | | 35 | 7 | 1.10 | 43 | 47 | 95 | 24 | 5.8 | 3.3 | 71.7 | 8.6 | 6.7 | 52 |
| LM | 51 | 34 | 5 | 1.06 | 42 | 46 | 92 | 23 | 5.5 | 3.3 | 69.5 | 8.4 | 7.1 | 49 |
| | | 35 | 12 | 1.09 | 43 | 46 | 91 | 23 | 5.4 | 4.0 | 70.7 | 8.1 | 7.7 | 48 |
| | | 36 | 5 | 1.12 | 44 | 46 | 91 | 23 | 5.2 | 4.4 | 71.9 | 8.1 | 7.4 | 54 |
| LM LT SP | 52 | 34 | 8 | 1.07 | 42 | 47 | 93 | 22 | 5.3 | 3.9 | 67.1 | 9.2 | 8.3 | 42 |
| | | 35 | 3 | 1.11 | 44 | 46 | 94 | 24 | 5.5 | 4.3 | 71.1 | 9.0 | 8.1 | 62 |
| SGO | 61 | 35 | 3 | 1.10 | 42 | 47 | 91 | 23 | 5.2 | 4.8 | 66.2 | 8.2 | 9.1 | 45 |
| SOUTHWEST: | | | | | | | | | | | | | | |
| MID | 31 | 33 | 5 | 1.06 | 45 | 48 | 90 | 23 | 5.1 | 2.5 | 78.0 | 9.3 | 6.6 | 49 |
| | | 34 | 3 | 1.04 | 46 | 46 | 89 | 24 | 5.6 | 1.8 | 78.2 | 9.4 | 6.5 | 53 |
| SLM | 41 | 33 | 11 | 1.04 | 46 | 42 | 85 | 23 | 5.8 | 3.2 | 76.2 | 9.1 | 6.9 | 52 |
| | | 34 | 4 | 1.07 | 45 | 47 | 87 | 23 | 5.9 | 2.6 | 75.9 | 9.3 | 6.7 | 50 |
| | | 35 | 3 | 1.11 | 44 | 47 | 89 | 23 | 6.1 | 2.8 | 74.4 | 8.8 | 6.3 | 55 |
| SLM LT SP | 42 | 30 | 3 | 0.95 | 44 | 42 | 87 | 21 | 6.5 | 4.1 | 73.7 | 9.5 | 8.9 | 35 |
| | | 31 | 3 | 0.99 | 45 | 38 | 86 | 22 | 6.7 | 4.3 | 76.3 | 9.6 | 7.9 | 41 |
| | | 32 | 7 | 1.01 | 43 | 37 | 85 | 22 | 6.5 | 4.6 | 75.2 | 9.0 | 8.1 | 48 |
| LM LT SP | 52 | 32 | 3 | 1.01 | 44 | 40 | 86 | 24 | 6.7 | 4.9 | 74.2 | 9.1 | 8.1 | 47 |

TABLE 3.--CONTINUED

| STAPLE GROUP, AREA, GRADE AND STAPLE | NO. OF LOTS | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | |
|--|-------------------|-----------------|------|------------|------|------------|------|--------|-------|----------|-----|----------------------------------|-------|------|-------|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | BLEACHED | | DYED | | PCT. | UNITS |
| | | COARSE | FINE | COARSE | FINE | COARSE | FINE | COARSE | FINE | Rd | +b | Rd | -b | | |
| NAME | CODE | 32ND | NO. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS |
| MEDIUM STAPLE GROUP | | | | | | | | | | | | | | | |
| SOUTH CENTRAL: | | | | | | | | | | | | | | | |
| MID | 31 | 35 | 4 | 112 | 37 | 6.7 | 5.1 | 102 | 75 | 60 | 337 | 91.3 | 4.8 | 26.0 | 33.5 |
| SLM | 41 | 34 | 9 | 97 | 32 | 5.9 | 4.8 | 98 | 68 | 52 | 294 | 91.6 | 4.5 | 26.5 | 33.1 |
| | 35 | 20 | 3 | 98 | 32 | 5.8 | 4.7 | 96 | 68 | 66 | 346 | 91.0 | 4.8 | 26.4 | 33.3 |
| | 36 | | | 107 | 36 | 5.9 | 4.8 | 103 | 70 | 55 | 313 | 90.7 | 5.2 | 26.9 | 33.0 |
| SLM LT SP | 42 | 34 | 9 | 90 | 29 | 5.5 | 4.4 | 93 | 64 | 51 | 300 | 90.7 | 5.0 | 27.1 | 32.7 |
| | 35 | | 7 | 103 | 35 | 6.1 | 4.7 | 91 | 63 | 75 | 399 | 90.1 | 4.8 | 26.8 | 33.0 |
| LM | 51 | 34 | 5 | 100 | 32 | 5.5 | 4.5 | 98 | 66 | 54 | 294 | 90.1 | 4.8 | 27.1 | 32.7 |
| | 35 | | 12 | 97 | 31 | 5.8 | 4.5 | 94 | 67 | 81 | 372 | 90.7 | 4.8 | 27.1 | 32.8 |
| | 36 | | 5 | 105 | 34 | 6.3 | 4.9 | 94 | 66 | 85 | 385 | 90.7 | 4.6 | 27.1 | 32.9 |
| LM LT SP | 52 | 34 | 8 | 89 | 29 | 5.4 | 4.2 | 96 | 66 | 98 | 320 | 90.0 | 4.8 | 27.5 | 32.3 |
| | 35 | | 3 | 105 | 35 | 5.8 | 4.5 | 83 | 67 | 121 | 353 | 90.4 | 4.6 | 27.3 | 32.7 |
| SGO | 61 | 35 | 3 | 90 | 28 | 5.5 | 4.1 | 97 | 60 | 119 | 437 | 89.7 | 4.7 | 27.8 | 32.2 |
| SOUTHWEST: | | | | | | | | | | | | | | | |
| MID | 31 | 33 | 5 | 103 | 34 | 5.8 | 4.5 | 98 | 70 | 47 | 164 | 92.9 | 4.7 | 27.2 | 32.5 |
| | 34 | | 3 | 105 | 35 | 6.1 | 4.7 | 110 | 77 | 41 | 166 | 94.5 | 4.7 | 27.0 | 32.7 |
| SLM | 41 | 33 | 11 | 105 | 35 | 6.1 | 4.9 | 98 | 75 | 60 | 213 | 91.5 | 4.6 | 27.5 | 32.6 |
| | 34 | | 4 | 105 | 34 | 6.2 | 4.8 | 98 | 70 | 83 | 364 | 91.0 | 4.9 | 27.5 | 32.7 |
| | 35 | | 3 | 107 | 36 | 6.6 | 5.2 | 97 | 63 | 78 | 411 | 91.3 | 3.9 | 27.6 | 32.6 |
| SLM LT SP | 42 | 30 | 3 | 87 | 27 | 5.7 | 4.9 | 93 | 67 | 47 | 223 | 90.8 | 5.2 | 28.6 | 31.3 |
| | 31 | | 3 | 95 | 30 | 6.3 | 5.0 | 77 | 63 | 79 | 322 | 91.1 | 5.2 | 29.4 | 30.9 |
| | 32 | | 7 | 99 | 32 | 6.4 | 4.9 | 74 | 60 | 84 | 355 | 91.2 | 5.0 | 28.5 | 31.5 |
| LM LT SP | 52 | 32 | 3 | 100 | 34 | 6.2 | 4.8 | 73 | 60 | 93 | 273 | 91.3 | 4.2 | 31.0 | 30.1 |

TABLE 3.--CONTINUED

| STAPLE GROUP, AREA, GRADE AND STAPLE | 32ND IN. | CODE | NO. | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | PICKER & CARD WASTE | SPY NO. |
|--|-------------|------|-----|-----------------|-----------------|-----------------|-------------------|--------------|-------------------------|--------------------------------|-----------------------|-------|---------------------------|------------|
| | | | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO : GAGE | 1/8" GAGE | | | Rd | +b | | |
| NAME | | | | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | PCT. | NO. |
| MEDIUM STAPLE GROUP | | | | | | | | | | | | | | |
| WEST: | | | | | | | | | | | | | | |
| MID | 31 | 34 | 7 | 1.05 | 42 | 46 | 89 | 23 | 6.2 | 2.5 | 80.7 | 8.0 | 6.4 | 42 |
| | | 35 | 39 | 1.09 | 43 | 45 | 91 | 24 | 6.0 | 2.4 | 79.9 | 8.4 | 6.3 | 56 |
| | | 36 | 30 | 1.12 | 45 | 42 | 96 | 27 | 5.8 | 2.1 | 79.9 | 8.5 | 5.9 | 76 |
| SLM + | 40 | 36 | 5 | 1.12 | 46 | 43 | 95 | 27 | 6.0 | 2.7 | 78.9 | 8.3 | 7.2 | 70 |
| SLM | 41 | 35 | 5 | 1.10 | 43 | 43 | 92 | 24 | 5.5 | 3.7 | 78.6 | 8.5 | 7.3 | 58 |
| | | 36 | 5 | 1.14 | 45 | 41 | 96 | 26 | 5.8 | 3.0 | 78.1 | 8.2 | 6.5 | 79 |
| LONG STAPLE GROUP | | | | | | | | | | | | | | |
| SOUTHEAST: | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 33 | 3 | 1.04 | 43 | 43 | 92 | 23 | 5.6 | 3.2 | 71.6 | 9.6 | 8.4 | 43 |

TABLE 3.--CONTINUED

| STAPLE GROUP, AREA, GRADE AND STAPLE | | NO. OF LOTS | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|--|------|-------------------|-----------------|------|------------|------|------------|-------|-------|------|----------|------|----------------------------------|------|--------|----|----|----|----|-------|------|-------|
| | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | BLEACHED | | DYED | | | | | | | | | |
| NAME | CODE | 32ND IN. | NO. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | FINE | COARSE | FINE | COARSE | FINE | COARSE | Rd | +b | Rd | -b | UNITS | PCT. | UNITS |
| | | | | | | | | | | | | | | | | | | | | | | |
| MEDIUM STAPLE GROUP | | | | | | | | | | | | | | | | | | | | | | |
| WEST: | | | | | | | | | | | | | | | | | | | | | | |
| MID | 31 | 34 | 7 | 98 | 32 | 5.8 | 4.5 | 79 | 61 | 68 | 426 | 92.4 | 4.1 | 27.6 | 32.7 | | | | | | | |
| | 35 | 39 | 39 | 109 | 37 | 6.2 | 4.9 | 79 | 61 | 86 | 388 | 91.6 | 4.6 | 27.6 | 32.6 | | | | | | | |
| | 36 | 30 | 30 | 131 | 48 | 6.4 | 5.2 | 80 | 62 | 123 | 378 | 91.8 | 4.5 | 27.6 | 32.5 | | | | | | | |
| SLM + | 40 | 36 | 5 | 128 | 45 | 6.1 | 5.0 | 78 | 60 | 120 | 324 | 87.5 | 5.0 | 27.3 | 32.8 | | | | | | | |
| SLM | 41 | 35 | 5 | 110 | 37 | 6.0 | 4.7 | 78 | 60 | 89 | 391 | 92.8 | 4.1 | 27.2 | 32.9 | | | | | | | |
| | 36 | 5 | 5 | 135 | 50 | 6.4 | 5.2 | 74 | 62 | 151 | 377 | 92.2 | 4.5 | 27.8 | 32.3 | | | | | | | |
| LONG STAPLE GROUP | | | | | | | | | | | | | | | | | | | | | | |
| SOUTHEAST: | | | | | | | | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 33 | 3 | 86 | 27 | 5.4 | 4.5 | 113 | 73 | 14 | 170 | 90.2 | 5.2 | 27.6 | 32.4 | | | | | | | |

TABLE 4.--COTTON: AVERAGE OF CLASSIFICATION, FIBER TESTS, AND YARN PROCESSING TESTS BY STAPLE GROUP, VARIETY AND STATE FOR SAMPLES FROM SELECTED 100 PERCENT ONE VARIETY GIN POINTS, CROP OF 1980.

| STAPLE GROUP, VARIETY, AND STATE | NO. OF LOTS | CLASSIFICATION | FIBER LENGTH | MICRO- NAIRE | FIBER STRENGTH | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF | | PICKER & CARD WASTE | SPY NO. | | |
|--|-------------------|----------------|-----------------|-----------------|-------------------|----------------------|--------------------------------|-----------|-------|---------------------------|------------|------|----|
| | | | | | | | | RAW STOCK | UNITS | | | | |
| | | | | | | | | | | | | Rd | +b |
| NO. INDEX 32ND IN. IN. PCT. RDG. MPSI G/TEX PCT. PCT. UNITS PCT. NO. | | | | | | | | | | | | | |
| SHORT STAPLE: | | | | | | | | | | | | | |
| GP 3774 | | | | | | | | | | | | | |
| CENTRAL TEXAS | 3 | 97 | 29 | 0.95 | 44 | 43 | 91 | 20 | 5.7 | 2.8 | 72.7 | 10.5 | 32 |
| MEDIUM STAPLE: | | | | | | | | | | | | | |
| ACALA SJ-2 CALIFORNIA | 9 | 99 | 36 | 1.11 | 45 | 43 | 94 | 27 | 6.2 | 2.4 | 79.6 | 8.7 | 68 |
| ACALA SJ-5 CALIFORNIA | 3 | 96 | 36 | 1.13 | 45 | 42 | 98 | 27 | 6.1 | 2.4 | 80.0 | 7.7 | 78 |
| COKEK 304 ALABAMA | 3 | 89 | 34 | 1.06 | 43 | 49 | 92 | 24 | 6.2 | 2.8 | 70.1 | 9.8 | 49 |
| COKEK 315 SOUTH CAROLINA | 3 | 91 | 34 | 1.11 | 44 | 44 | 90 | 24 | 5.7 | 3.1 | 70.0 | 9.0 | 61 |
| DELTAPINE 26 MISSISSIPPI | 2 | 90 | 34 | 1.08 | 43 | 46 | 94 | 24 | 5.4 | 2.9 | 71.2 | 8.4 | 52 |
| DELTAPINE 41 ARIZONA | 3 | 96 | 35 | 1.11 | 43 | 46 | 93 | 24 | 5.7 | 3.2 | 79.3 | 8.6 | 57 |
| MISSISSIPPI | 3 | 85 | 35 | 1.11 | 44 | 45 | 98 | 24 | 5.5 | 3.7 | 69.8 | 8.7 | 59 |
| DELTAPINE 55 ARIZONA | 3 | 100 | 35 | 1.09 | 43 | 47 | 89 | 23 | 5.9 | 2.4 | 81.1 | 8.2 | 56 |
| LOUISIANA | 4 | 93 | 34 | 1.07 | 42 | 45 | 92 | 23 | 5.6 | 2.2 | 72.6 | 8.3 | 43 |
| DELTAPINE 61 ARKANSAS | 3 | 89 | 35 | 1.10 | 43 | 47 | 93 | 25 | 6.1 | 2.7 | 71.2 | 8.5 | 51 |
| CALIFORNIA | 5 | 100 | 35 | 1.06 | 42 | 45 | 90 | 23 | 5.9 | 2.4 | 79.6 | 8.2 | 49 |
| MISSISSIPPI | 3 | 92 | 34 | 1.08 | 42 | 46 | 88 | 23 | 6.8 | 2.7 | 73.5 | 8.7 | 51 |
| DELTAPINE 70 ARIZONA | 3 | 100 | 35 | 1.11 | 42 | 44 | 87 | 23 | 5.9 | 2.2 | 80.7 | 8.4 | 57 |

TABLE 4. --CONTINUED

| STAPLE GROUP, VARIETY, AND STATE | NO. OF LOTS | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | |
|--|-------------------|-----------------|------|---------------|------|---------------|-------|---------------|-------|---------------|-------|----------------------------------|-------|------|-------|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | BLEACHED | | DYED | | PCT. | UNITS |
| | | COARSE : FINE | PCT. | COARSE : FINE | PCT. | COARSE : FINE | INDEX | COARSE : FINE | INDEX | COARSE : FINE | INDEX | COARSE : FINE | INDEX | | |
| NO. | LBS. | LBS. | PCT. | COARSE : FINE | PCT. | COARSE : FINE | INDEX | COARSE : FINE | INDEX | COARSE : FINE | INDEX | COARSE : FINE | INDEX | PCT. | UNITS |
| SHORT STAPLE: | | | | | | | | | | | | | | | |
| GP 3774 | | | | | | | | | | | | | | | |
| CENTRAL TEXAS | 3 | 255 | 81 | 6.8 | 5.9 | 113 | 100 | 8 | 55 | 91.8 | 5.5 | 27.1 | 32.6 | | |
| MEDIUM STAPLE: | | | | | | | | | | | | | | | |
| ACALA SJ-2 CALIFORNIA | 9 | 123 | 44 | 6.4 | 5.2 | 78 | 61 | 127 | 361 | 90.5 | 4.3 | 27.8 | 32.4 | | |
| ACALA SJ-5 CALIFORNIA | 3 | 135 | 49 | 6.5 | 5.4 | 83 | 60 | 188 | 461 | 92.2 | 4.6 | 28.0 | 32.2 | | |
| COKER 304 ALABAMA | 3 | 98 | 32 | 5.8 | 4.7 | 93 | 60 | 81 | 275 | 90.2 | 5.1 | 27.4 | 32.4 | | |
| COKER 315 SOUTH CAROLINA | 3 | 110 | 38 | 6.3 | 4.9 | 93 | 60 | 78 | 453 | 90.8 | 4.8 | 27.7 | 32.5 | | |
| DELTAPINE 26 MISSISSIPPI | 2 | 103 | 34 | 5.8 | 4.5 | 115 | 75 | 31 | 195 | 90.4 | 4.6 | 27.6 | 32.4 | | |
| DELTAPINE 41 ARIZONA | 3 | 109 | 36 | 6.2 | 4.9 | 83 | 60 | 78 | 345 | 93.0 | 4.1 | 26.8 | 33.2 | | |
| MISSISSIPPI | 3 | 107 | 37 | 5.8 | 4.5 | 90 | 67 | 54 | 347 | 91.8 | 4.0 | 28.0 | 32.5 | | |
| DELTAPINE 55 ARIZONA | 3 | 104 | 34 | 5.9 | 4.6 | 83 | 60 | 54 | 307 | 92.2 | 4.1 | 28.3 | 32.5 | | |
| LOUISIANA | 4 | 90 | 30 | 5.4 | 4.7 | 98 | 62 | 42 | 332 | 90.8 | 4.4 | 27.2 | 32.8 | | |
| DELTAPINE 61 ARKANSAS | 3 | 105 | 36 | 6.3 | 5.0 | 83 | 63 | 84 | 447 | 89.9 | 4.9 | 26.9 | 33.0 | | |
| CALIFORNIA | 5 | 104 | 34 | 6.0 | 4.5 | 84 | 62 | 53 | 350 | 91.9 | 4.5 | 28.0 | 32.6 | | |
| MISSISSIPPI | 3 | 105 | 33 | 6.5 | 5.0 | 97 | 67 | 38 | 331 | 91.7 | 4.4 | 26.9 | 32.9 | | |
| DELTAPINE 70 ARIZONA | 3 | 105 | 35 | 6.5 | 4.8 | 77 | 60 | 91 | 413 | 92.6 | 4.1 | 28.5 | 32.2 | | |

TABLE 4. --CONTINUED

| STAPLE GROUP, VARIETY, AND STATE | NO. OF LOTS | CLASSIFICATION | FIBER | | MICRO- NAIRE | FIBER | | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | PICKER & CARD WASTE | SPY NO. | | |
|--|-------------------|----------------|----------------|--------------|-----------------|----------|----------------------|--------------------------------|-----------------------|-------|---------------------------|------------|-----|----|
| | | | GRADE : STAPLE | SPAN : UNIF. | | STRENGTH | 1/8" ELON- GATION | | Rd : +b | | | | | |
| | | | | | | | | | | | | | | |
| NO. | INDEX | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | UNITS | PCT. | NO. | | |
| MEDIUM STAPLE: | | | | | | | | | | | | | | |
| DES 56 MISSISSIPPI | 3 | 97 | 35 | 1.10 | 43 | 47 | 91 | 24 | 5.7 | 1.9 | 75.4 | 8.5 | 5.9 | 54 |
| DIXIE KING III GEORGIA | 3 | 85 | 32 | 0.97 | 44 | 43 | 94 | 21 | 5.4 | 3.0 | 70.3 | 11.0 | 7.8 | 27 |
| MC NAIR 220 ALABAMA | 3 | 80 | 34 | 1.06 | 46 | 49 | 94 | 24 | 5.8 | 4.6 | 71.0 | 10.0 | 7.7 | 55 |
| MC NAIR 235 ARKANSAS | 3 | 80 | 34 | 1.09 | 44 | 47 | 95 | 25 | 5.6 | 4.9 | 69.0 | 8.8 | 8.0 | 55 |
| STONEVILLE 213 ARKANSAS | 3 | 91 | 35 | 1.09 | 44 | 49 | 88 | 23 | 6.1 | 2.6 | 72.3 | 8.6 | 6.2 | 52 |
| SOUTH TEXAS | 3 | 96 | 34 | 1.05 | 46 | 48 | 86 | 23 | 5.8 | 2.0 | 76.7 | 9.2 | 6.7 | 53 |
| STONEVILLE 825 ARIZONA | 3 | 97 | 35 | 1.08 | 43 | 45 | 90 | 22 | 4.9 | 2.8 | 80.1 | 8.0 | 7.2 | 51 |
| LOUISIANA | 4 | 90 | 35 | 1.09 | 43 | 46 | 94 | 23 | 5.3 | 2.7 | 77.2 | 8.6 | 6.9 | 49 |
| MISSISSIPPI | 9 | 83 | 35 | 1.10 | 43 | 48 | 91 | 22 | 5.0 | 4.6 | 69.6 | 8.1 | 8.4 | 43 |
| VAIL 7 ARKANSAS | 3 | 83 | 34 | 1.09 | 41 | 49 | 95 | 21 | 4.6 | 4.2 | 66.4 | 9.2 | 8.4 | 40 |
| LONG STAPLE: | | | | | | | | | | | | | | |
| COKER 310 GEORGIA | 3 | 87 | 33 | 1.04 | 43 | 45 | 93 | 23 | 5.5 | 3.3 | 69.2 | 10.1 | 8.5 | 41 |

TABLE 4.--CONTINUED

| STAPLE GROUP, VARIETY, AND STATE | NO. OF LOTS | YARN PROPERTIES | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|--|-------------------|-----------------|------|------------|------|------------|-------|----------------------------------|------|----------|-------|------|-------|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | BLEACHED | | DYED | |
| | | COARSE | FINE | COARSE | FINE | COARSE | FINE | COARSE | FINE | Rd | +b | Rd | -b |
| | NO. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS |
| MEDIUM STAPLE: | | | | | | | | | | | | | |
| DES 56 MISSISSIPPI | 3 | 110 | 37 | 6.0 | 4.8 | 110 | 73 | 34 | 163 | 91.2 | 4.6 | 26.9 | 33.1 |
| DIXIE KING III GEORGIA | 3 | 83 | 26 | 5.4 | 4.8 | 107 | 70 | 59 | 205 | 88.2 | 6.7 | 27.5 | 31.4 |
| MC NAIR 220 ALABAMA | 3 | 107 | 36 | 6.0 | 4.7 | 113 | 80 | 47 | 221 | 90.9 | 5.1 | 26.7 | 32.6 |
| MC NAIR 235 ARKANSAS | 3 | 103 | 34 | 5.8 | 4.5 | 93 | 67 | 78 | 260 | 89.8 | 4.8 | 27.8 | 31.9 |
| STONEVILLE 213 ARKANSAS | 3 | 99 | 32 | 5.9 | 4.6 | 100 | 73 | 52 | 253 | 91.1 | 4.6 | 26.4 | 33.4 |
| SOUTH TEXAS | 3 | 109 | 37 | 6.2 | 4.9 | 113 | 87 | 63 | 174 | 92.4 | 4.8 | 27.0 | 33.1 |
| STONEVILLE 825 ARIZONA | 3 | 98 | 32 | 5.5 | 4.1 | 80 | 60 | 83 | 330 | 91.5 | 4.5 | 27.1 | 33.0 |
| LOUISIANA | 4 | 97 | 32 | 5.7 | 4.6 | 82 | 60 | 123 | 452 | 91.5 | 4.3 | 26.7 | 33.1 |
| MISSISSIPPI | 9 | 92 | 29 | 5.5 | 4.2 | 92 | 64 | 120 | 484 | 89.7 | 4.9 | 26.9 | 32.9 |
| VAIL 7 ARKANSAS | 3 | 86 | 27 | 5.0 | 4.0 | 100 | 67 | 129 | 409 | 89.3 | 4.9 | 26.2 | 33.3 |
| LONG STAPLE: | | | | | | | | | | | | | |
| COKER 310 GEORGIA | 3 | 82 | 26 | 5.2 | 4.4 | 110 | 73 | 15 | 110 | 90.1 | 5.8 | 27.7 | 32.1 |

TABLE 5.--COTTON: AMERICAN UPLAND SHORT STAPLE FIBER AND YARN QUALITY CHARACTERISTICS BY PRODUCTION AREA AND CLASSIFICATION, CROP OF 1980.

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | |
|--------------------------------|------|----------------------------|-----|--------------------|------|-------------------------|-------|-----------------|------|--------------------------|------|--------------------|------|---------------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. SPAN : | | ZERO : 1/8" GAGE : | | VISIBLE : TOTAL WASTE : | | RD : | | PCT. | | PCT. | | UNITS | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | NO. | NO. | PCT. | PCT. |
| SOUTH WEST CENTRAL TEXAS BYERS | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 30 | 0.96 | 44 | | 47 | 90 | 21 | 5.8 | 2.7 | 4.8 | 72.0 | 9.0 | 42-1 | 7.5 | |
| SLM LT SP 42 | 30 | 0.91 | 43 | | 43 | 85 | 21 | 6.1 | 2.3 | 4.2 | 70.5 | 10.0 | 42-1 | 8.7 | |
| LM LT SP 52 1/2 | 32 | 1.01 | 43 | | 41 | 87 | 22 | 5.6 | 3.9 | 5.3 | 71.8 | 9.1 | 41-3 | 7.3 | |
| COMMERCE | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | |
| M LT SP 32 | 28 | 0.87 | 43 | | 34 | 95 | 17 | 4.7 | 2.0 | 2.7 | 75.5 | 10.4 | 22-2 | 6.9 | |
| M LT SP 32 | 29 | 0.89 | 45 | | 41 | 95 | 17 | 5.3 | 1.3 | 1.9 | 74.5 | 10.7 | 22-2 | 6.5 2/ | |
| M LT SP 32 | 29 | 0.92 | 44 | | 43 | 92 | 20 | 5.5 | 1.5 | 2.6 | 75.0 | 10.4 | 22-2 | 6.6 2/ | |
| GOVINGTON | | | | | | | | | | | | | | | |
| LANKART LX571 | | | | | | | | | | | | | | | |
| M 31 | 30 | 0.97 | 45 | | 47 | 94 | 20 | 5.6 | 1.9 | 2.4 | 75.5 | 9.8 | 21-4 | 6.7 | |
| SLM LT SP 42 | 30 | 0.97 | 45 | | 47 | 95 | 22 | 5.5 | 2.4 | 3.1 | 69.5 | 10.1 | 42-1 | 8.3 | |
| M LT SP 32 | 30 | 0.95 | 45 | | 48 | 90 | 22 | 5.8 | 1.9 | 3.4 | 72.7 | 10.2 | 32-2 | 7.1 | |
| FERRIS | | | | | | | | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | | | | | | | | |
| 98 PERCENT | | | | | | | | | | | | | | | |
| SLM 41 | 30 | 0.97 | 44 | | 39 | 90 | 19 | 5.6 | 2.7 | 3.4 | 75.3 | 9.8 | 21-4 | 7.7 2/ | |
| SLM 41 | 30 | 1.00 | 45 | | 40 | 91 | 20 | 5.7 | 2.5 | 3.5 | 75.2 | 9.3 | 31-3 | 7.7 2/ | |
| SLM LT SP 42 | 30 | 0.96 | 44 | | 40 | 93 | 22 | 5.4 | 3.1 | 4.3 | 74.7 | 10.4 | 22-2 | 7.6 | |
| GRANDVIEW | | | | | | | | | | | | | | | |
| GP 3774 | | | | | | | | | | | | | | | |
| 100 PERCENT | | | | | | | | | | | | | | | |
| M LT SP 32 | 29 | 0.93 | 43 | | 43 | 89 | 21 | 5.7 | 1.6 | 2.5 | 71.3 | 11.0 | 33-1 | 7.1 | |
| M LT SP 32 | 29 | 0.96 | 45 | | 42 | 90 | 20 | 5.5 | 1.8 | 2.9 | 71.8 | 10.6 | 33-1 | 7.2 | |
| M LT SP 32 | 29 | 0.96 | 45 | | 43 | 93 | 20 | 5.8 | 1.7 | 2.9 | 75.0 | 9.8 | 32-1 | 6.7 | |
| HOLLAND | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | |
| 75 PERCENT | | | | | | | | | | | | | | | |
| SLM 41 | 29 | 0.96 | 46 | | 42 | 96 | 22 | 5.6 | 2.2 | 3.3 | 77.0 | 9.4 | 21-4 | 7.0 | |
| SLM 41 | 29 | 0.94 | 45 | | 46 | 89 | 19 | 5.3 | 1.8 | 2.5 | 76.5 | 9.8 | 21-4 | 7.0 | |
| SLM SP 43 | 29 | 0.96 | 46 | | 44 | 94 | 21 | 5.6 | 2.6 | 4.0 | 67.7 | 10.6 | 43-1 | 8.1 | |

1/ REDUCED FROM 42 BECAUSE OF GRASS.

2/ COTTON STUCK TO PROCESSING ROLLS.

TABLE 5.--CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | |
|--------------------|------|-----------------|----------|------------|----------|------------|----------|----------|----------|---------|---------|----------------------------------|---------|---------|------------|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | GRAY | | BLEACHED | | DYED | |
| GRADE : STAPLE | | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | Rd : +b | Rd : +b | Rd : +b | Rd : +b | Rd : -b | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. UNITS |
| SOUTH WEST | | | | | | | | | | | | | | | |
| CENTRAL TEXAS | | | | | | | | | | | | | | | |
| BYERS | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 30 | 289 | 91 | 7.2 | 6.0 | 120 | 120 | 6 | 18 | 41 | 67.3 | 10.2 | 89.0 | 6.8 | 30.4 |
| SLM LT SP 42 | 30 | 252 | 84 | 6.5 | 5.6 | 120 | 110 | 2 | 24 | 31 | 72.7 | 10.4 | 89.5 | 5.5 | 29.5 |
| LM LT SP 52 1/2 | 32 | 314 | 107 | 7.7 | 7.1 | 100 | 110 | 0 | 22 | 54 | 73.8 | 9.9 | 91.5 | 4.8 | 30.7 |
| COMMERCE | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | |
| M LT SP 32 | 28 | 242 | 68 | 5.8 | 4.9 | 100 | 110 | 12 | 46 | 14 2/3 | 77.4 | 10.6 | 92.1 | 4.6 | 27.2 |
| M LT SP 32 | 29 | 263 | 81 | 6.5 | 5.7 | 120 | 120 | 12 | 40 | 31 | 76.1 | 10.9 | 92.1 | 5.7 | 26.7 |
| M LT SP 32 | 29 | 271 | 87 | 7.0 | 6.2 | 120 | 110 | 6 | 34 | 31 | 76.6 | 10.9 | 90.5 | 5.6 | 26.8 |
| COVINGTON | | | | | | | | | | | | | | | |
| LANKART LX571 | | | | | | | | | | | | | | | |
| M LT SP 32 | 30 | 287 | 90 | 7.0 | 6.2 | 130 | 110 | 2 | 56 | 37 | 78.1 | 10.2 | 92.3 | 5.1 | 27.1 |
| SLM LT SP 42 | 30 | 267 | 85 | 6.0 | 5.8 | 130 | 110 | 2 | 26 | 36 | 73.8 | 10.8 | 91.0 | 5.8 | 26.3 |
| M LT SP 32 | 30 | 272 | 80 | 6.8 | 5.9 | 130 | 110 | 0 | 18 | 31 | 75.2 | 10.7 | 89.5 | 6.1 | 26.2 |
| FERRIS | | | | | | | | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | | | | | | | | |
| 98 PERCENT | | | | | | | | | | | | | | | |
| SLM | 41 | 277 | 92 | 6.7 | 6.0 | 130 | 110 | 4 | 38 | 41 | 78.2 | 10.3 | 92.7 | 5.3 | 27.8 |
| SLM | 41 | 290 | 91 | 7.6 | 6.5 | 120 | 100 | 2 | 16 | 40 | 78.5 | 10.2 | 91.3 | 5.0 | 28.3 |
| SLM LT SP 42 | 30 | 285 | 93 | 7.3 | 6.6 | 120 | 120 | 6 | 24 | 37 | 77.1 | 10.6 | 91.2 | 5.3 | 27.1 |
| GRANDVIEW | | | | | | | | | | | | | | | |
| GP 3774 | | | | | | | | | | | | | | | |
| 100 PERCENT | | | | | | | | | | | | | | | |
| M LT SP 32 | 29 | 243 | 76 | 6.6 | 5.5 | 110 | 90 | 8 | 64 | 30 | 74.0 | 11.1 | 92.0 | 5.7 | 27.0 |
| M LT SP 32 | 29 | 254 | 80 | 6.7 | 5.8 | 120 | 100 | 10 | 70 | 31 | 75.5 | 10.9 | 92.3 | 5.4 | 27.0 |
| M LT SP 32 | 29 | 268 | 86 | 7.1 | 6.3 | 110 | 110 | 6 | 30 | 35 | 76.7 | 10.6 | 91.1 | 5.4 | 27.4 |
| HOLLAND | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | |
| 75 PERCENT | | | | | | | | | | | | | | | |
| SLM | 41 | 260 | 84 | 5.1 | 5.5 | 120 | 120 | 44 | 144 | 33 | 78.9 | 10.0 | 92.1 | 4.4 | 26.9 |
| SLM | 41 | 263 | 86 | 6.8 | 6.0 | 120 | 110 | 2 | 40 | 35 | 78.8 | 10.3 | 92.8 | 5.2 | 27.0 |
| SLM SP | 43 | 264 | 83 | 6.3 | 5.5 | 120 | 130 | 8 | 32 | 36 | 71.5 | 11.3 | 92.3 | 5.7 | 27.1 |

1/REDUCED FROM 42 BECAUSE OF GRASS.

2/THIS IS AN ESTIMATED VALUE BELOW THE RANGE OF THE TEST.

TABLE 5. --CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD | |
|----------------------------|------------------|---------------------|------|--------------|------|------------------|-------|-----------------|------|-------------------------------|------|--------------------|------|---------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | SPAN : UNIF. | | ZERO : 1/8" GAGE | | GATION | | VISIBLE : TOTAL WASTE : WASTE | | : +b : CODE | | WASTE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. |
| SOUTH WEST NORTHWEST TEXAS | | | | | | | | | | | | | | | |
| TEMPLE | | | | | | | | | | | | | | | |
| LANKART LX571 | | | | | | | | | | | | | | | |
| SLM | 41 | 29 | 0.94 | 44 | 44 | 91 | 18 | 5.3 | 2.6 | 3.8 | 75.2 | 10.0 | 22-2 | 8.0 | |
| SLM | 41 | 29 | 0.98 | 46 | 48 | 96 | 21 | 5.3 | 3.0 | 3.6 | 74.5 | 9.8 | 32-1 | 7.5 | |
| SLM LT SP | 42 | 29 | 0.94 | 43 | 44 | 96 | 20 | 5.5 | 2.5 | 3.5 | 71.7 | 9.8 | 32-2 | 7.0 | |
| ABERNATHY | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 30 | 0.97 | 43 | 41 | 89 | 21 | 6.1 | 2.5 | 3.9 | 76.0 | 9.2 | 21-4 | 7.2 | |
| SLM LT SP | 42 | 31 | 0.97 | 44 | 41 | 88 | 21 | 6.1 | 2.7 | 4.1 | 75.4 | 9.6 | 31-4 | 7.1 | |
| SLM LT SP | 42 | 32 | 1.00 | 43 | 36 | 88 | 24 | 6.3 | 3.4 | 5.1 | 74.0 | 9.5 | 31-4 | 7.5 | |
| BIG SPRING | | | | | | | | | | | | | | | |
| TAMCOT SP-37H | | | | | | | | | | | | | | | |
| SLM SP | 43 | 31 | 0.99 | 45 | 46 | 89 | 22 | 6.0 | 2.4 | 3.6 | 68.0 | 10.4 | 43-1 | 6.9 | |
| LM LT SP | 52 ¹¹ | 32 | 1.03 | 42 | 39 | 78 | 22 | 7.0 | 3.9 | 5.8 | 70.0 | 9.2 | 42-2 | 8.4 | |
| LM SP | 53 ²¹ | 32 | 0.97 | 43 | 42 | 89 | 22 | 6.1 | 2.8 | 3.3 | 70.0 | 10.4 | 43-1 | 6.8 | |
| BOVINA | | | | | | | | | | | | | | | |
| QUAPAW | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 1.05 | 46 | 37 | 88 | 23 | 6.3 | 3.9 | 5.0 | 75.2 | 8.5 | 31-4 | 7.9 | |
| SLM LT SP | 42 | 32 | 1.01 | 44 | 37 | 85 | 22 | 6.5 | 2.5 | 4.8 | 75.3 | 8.5 | 31-4 | 7.5 | |
| SLM LT SP | 42 | 33 | 1.02 | 46 | 39 | 87 | 22 | 6.5 | 2.4 | 5.1 | 77.0 | 9.4 | 21-4 | 7.5 | |
| BURKBURNETT | | | | | | | | | | | | | | | |
| LANKART LX571 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 0.99 | 44 | 47 | 91 | 22 | 4.9 | 2.5 | 4.3 | 70.0 | 9.3 | 42-2 | 7.4 | |
| SLM LT SP | 42 | 32 | 1.01 | 44 | 46 | 91 | 22 | 5.5 | 2.8 | 4.2 | 73.0 | 9.6 | 32-2 | 7.5 | |
| SLM LT SP | 42 | 32 | 0.99 | 43 | 47 | 91 | 23 | 5.7 | 2.9 | 5.2 | 71.2 | 9.5 | 42-1 | 7.6 | |

¹¹ REDUCED FROM 42 BECAUSE OF BARK.
²¹ REDUCED FROM 43 BECAUSE OF BARK.

TABLE 5.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|--------------------------------------|-------|----------|-----------------|----------|------------|----------|------------|----------|----------|----------|-----|------|----------------------------------|---------|----------|---------|------|-------|--|--|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | NO. | NO. | Rd : +b | Rd : +b | Rd : +b | Rd : -b | PCT. | UNITS | | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | | |
| SOUTH WEST NORTHWEST TEXAS TEMPLE | | | | | | | | | | | | | | | | | | | | | | |
| LANKART LX571 | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 29 | 260 | 74 | 5.2 | 4.4 | 110 | 120 | 6 | 34 | 36 | 77.5 | 10.2 | 91.6 | 4.7 | 26.9 | 33.1 | | | | | |
| SLM | 41 | 29 | 278 | 90 | 6.8 | 5.7 | 120 | 110 | 26 | 70 | 37 | 77.5 | 10.2 | 92.6 | 5.7 | 27.7 | 32.3 | | | | | |
| SLM | LT SP | 42 | 276 | 90 | 7.0 | 6.3 | 120 | 110 | 8 | 50 | 34 | 74.7 | 10.5 | 90.2 | 5.5 | 27.2 | 32.6 | | | | | |
| ABERNATHY | | | | | | | | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | | | | | | | | |
| SLM | LT SP | 42 | 297 | 98 | 7.5 | 6.4 | 120 | 110 | 6 | 24 | 44 | 86.7 | 10.0 | 91.0 | 5.3 | 27.8 | 32.1 | | | | | |
| SLM | LT SP | 42 | 318 | 98 | 7.5 | 6.4 | 120 | 120 | 2 | 14 | 47 | 76.1 | 10.2 | 90.4 | 5.6 | 28.9 | 31.3 | | | | | |
| SLM | LT SP | 42 | 326 | 102 | 8.4 | 6.9 | 120 | 110 | 6 | 16 | 51 | 76.9 | 9.7 | 89.5 | 5.7 | 29.3 | 31.2 | | | | | |
| BIG SPRING | | | | | | | | | | | | | | | | | | | | | | |
| TAMCOT SP-37H | | | | | | | | | | | | | | | | | | | | | | |
| SLM | SP | 43 | 303 | 96 | 7.0 | 6.1 | 110 | 120 | 4 | 26 | 49 | 69.2 | 11.4 | 91.0 | 5.4 | 26.8 | 32.6 | | | | | |
| LM | LT SP | 52 1/2 | 301 | 97 | 7.8 | 6.6 | 110 | 100 | 6 | 28 | 52 | 73.1 | 10.0 | 90.0 | 5.4 | 30.7 | 30.3 | | | | | |
| LM | SP | 53 1/2 | 313 | 101 | 7.3 | 6.1 | 130 | 120 | 6 | 44 | 51 | 71.5 | 10.9 | 90.2 | 5.2 | 28.2 | 31.9 | | | | | |
| BOVINA | | | | | | | | | | | | | | | | | | | | | | |
| QUAPAW | | | | | | | | | | | | | | | | | | | | | | |
| 80 PERCENT | | | | | | | | | | | | | | | | | | | | | | |
| SLM | LT SP | 42 | 337 | 109 | 7.9 | 6.8 | 130 | 120 | 4 | 24 | 57 | 87.8 | 9.7 | 92.4 | 4.5 | 27.4 | 32.0 | | | | | |
| SLM | LT SP | 42 | 335 | 105 | 8.8 | 7.3 | 120 | 120 | 2 | 8 | 57 | 78.2 | 9.5 | 92.2 | 5.3 | 29.2 | 31.2 | | | | | |
| SLM | LT SP | 42 | 330 | 105 | 7.9 | 6.5 | 130 | 120 | 2 | 24 | 57 | 77.5 | 10.1 | 92.1 | 4.7 | 27.2 | 32.6 | | | | | |
| BURKBURNETT | | | | | | | | | | | | | | | | | | | | | | |
| LANKART LX571 | | | | | | | | | | | | | | | | | | | | | | |
| SLM | LT SP | 42 | 292 | 93 | 6.5 | 5.6 | 130 | 120 | 4 | 34 | 44 | 73.1 | 10.3 | 90.8 | 5.3 | 28.4 | 31.8 | | | | | |
| SLM | LT SP | 42 | 287 | 89 | 6.5 | 5.5 | 120 | 110 | 4 | 16 | 35 | 74.2 | 10.5 | 90.3 | 5.2 | 26.9 | 32.4 | | | | | |
| SLM | LT SP | 42 | 294 | 95 | 6.8 | 6.2 | 120 | 120 | 8 | 26 | 43 | 68.1 | 10.0 | 90.0 | 5.2 | 27.4 | 32.1 | | | | | |
| 1/2 REDUCED FROM 42 BECAUSE OF BARK. | | | | | | | | | | | | | | | | | | | | | | |
| 2/ REDUCED FROM 43 BECAUSE OF BARK. | | | | | | | | | | | | | | | | | | | | | | |

¹/REDUCED FROM 42 BECAUSE OF BARK.
²/REDUCED FROM 43 BECAUSE OF BARK.

TABLE 5.--CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD WASTE |
|----------------------------------|----------|---------------------|------|------------------|------|-----------------|-------|-----------------------|------|--------------------|-------|---------------------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | ZERO : 1/8" GAGE | | 1/8" ELONGATION | | VISIBLE : TOTAL WASTE | | : +b : CODE | | |
| GRADE | : STAPLE | SPAN | : | UNIF. | | | | | | | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | NO. |
| SOUTH WEST NORTHWEST TEXAS CHALK | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | |
| SLM | 41 | 31 | 0.95 | 45 | 43 | 85 | 21 | 6.4 | 2.0 | 3.9 | 74.0 | 41-3 |
| SLM LT SP | 42 | 32 | 0.99 | 44 | 43 | 86 | 23 | 6.8 | 2.0 | 4.0 | 74.0 | 31-4 |
| SLM LT SP | 42 | 31 | 0.97 | 43 | 43 | 88 | 21 | 6.7 | 1.9 | 4.0 | 71.3 | 42-1 |
| COLORADO CITY | | | | | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | | | | | |
| LM SP | 53 | 32 | 1.01 | 42 | 41 | 88 | 22 | 6.0 | 5.1 | 7.2 | 69.4 | 42-2 |
| LM SP | 53 1/2 | 32 | 1.02 | 41 | 39 | 81 | 22 | 7.1 | 4.2 | 6.2 | 71.5 | 32-2 |
| LM SP | 53 1/2 | 32 | 1.02 | 40 | 41 | 85 | 21 | 6.1 | 5.0 | 6.1 | 68.0 | 42-2 |
| CROWELL | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | |
| SLM LT SP | 42 | 31 | 0.98 | 43 | 45 | 84 | 21 | 6.4 | 3.7 | 6.1 | 73.4 | 31-4 |
| SLM LT SP | 42 | 31 | 0.95 | 45 | 43 | 93 | 21 | 5.6 | 3.8 | 5.1 | 72.5 | 33-1 |
| SLM LT SP | 42 | 31 | 0.96 | 44 | 46 | 90 | 21 | 5.5 | 4.0 | 6.3 | 74.0 | 32-1 |
| DIMMITT | | | | | | | | | | | | |
| PAYMASTER 202 | | | | | | | | | | | | |
| SLM SP | 43 | 31 | 1.03 | 43 | 36 | 86 | 21 | 6.2 | 2.7 | 4.7 | 68.4 | 42-2 |
| SLM LT SP | 42 | 31 | 0.98 | 43 | 36 | 85 | 23 | 7.1 | 2.7 | 5.0 | 71.3 | 42-1 |
| SLM LT SP | 42 | 31 | 1.04 | 46 | 45 | 85 | 22 | 6.7 | 3.2 | 5.1 | 73.0 | 32-2 |
| SLM SP | 43 3/4 | 32 | 0.97 | 45 | 35 | 85 | 22 | 7.0 | 2.6 | 4.0 | 70.0 | 42-1 |
| DODSON | | | | | | | | | | | | |
| TAMCOT SP-21 | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 0.99 | 43 | 45 | 87 | 22 | 6.5 | 2.8 | 3.6 | 73.3 | 32-2 |
| SLM LT SP | 42 | 32 | 1.00 | 44 | 39 | 89 | 23 | 6.2 | 2.9 | 4.7 | 75.0 | 31-3 |
| SLM SP | 43 | 32 | 1.01 | 42 | 37 | 85 | 24 | 5.5 | 4.9 | 7.0 | 70.1 | 42-1 |

^{1/} REDUCED FROM 43 BECAUSE OF BARK.^{2/} COTTON STUCK TO PROCESSING ROLLS.^{3/} REDUCED FROM 33 BECAUSE OF BARK.

TABLE 5.--CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|------------------------------------|------------------|-----------------|----------|------------|----------|------------|----------|----------|----------|----------|-----|----------------------------------|------|----------|------|-------|------|-------|--|--|--|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | |
| NAME | CODE | 32ND IN. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | |
| OUTH WEST NORTHWEST TEXAS CHALK | | | | | | | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 31 | 276 | 87 | 6.9 | 6.0 | 120 | 110 | 8 | 24 | 39 | 75.6 | 9.9 | 90.6 | 5.2 | 27.2 | 32.3 | 32.3 | | | |
| SLM LT SP | 42 | 32 | 295 | 95 | 7.3 | 6.4 | 120 | 120 | 0 | 26 | 46 | 69.2 | 9.9 | 89.8 | 5.9 | 29.6 | 30.8 | 30.8 | | | |
| SLM LT SP | 42 | 31 | 287 | 90 | 7.0 | 6.0 | 120 | 120 | 10 | 20 | 42 | 68.8 | 9.9 | 89.5 | 5.5 | 28.0 | 32.0 | 32.0 | | | |
| COLORADO CITY | | | | | | | | | | | | | | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | | | | | | | | | | | | | | |
| LM SP | 53 | 32 | 290 | 96 | 7.0 | 6.4 | 130 | 110 | 4 | 20 | 49 | 66.3 | 10.2 | 89.8 | 5.8 | 28.8 | 31.4 | 31.4 | | | |
| LM SP | 53 ¹⁾ | 32 | 303 | 96 | 8.3 | 6.9 | 120 | 90 | 6 | 62 | 52 | 70.5 | 11.5 | 90.4 | 5.9 | 31.1 | 29.7 | 29.7 | | | |
| LM SP | 53 ¹⁾ | 32 | 304 | 98 | 7.5 | 7.0 | 110 | 110 | 8 | 32 | 48 | 71.9 | 10.7 | 90.8 | 5.2 | 27.8 | 32.2 | 32.2 | | | |
| GROWELL | | | | | | | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 31 | 287 | 90 | 7.1 | 6.5 | 120 | 100 | 8 | 56 | 36 | 74.3 | 10.5 | 90.1 | 5.4 | 26.6 | 32.9 | 32.9 | | | |
| SLM LT SP | 42 | 31 | 284 | 85 | 7.1 | 5.9 | 120 | 110 | 8 | 68 | 37 | 74.0 | 11.2 | 90.8 | 5.7 | 27.3 | 32.0 | 32.0 | | | |
| SLM LT SP | 42 | 31 | 279 | 87 | 7.0 | 6.0 | 120 | 110 | 6 | 50 | 33 | 68.4 | 10.4 | 90.1 | 5.3 | 27.3 | 32.2 | 32.2 | | | |
| DIMMITT | | | | | | | | | | | | | | | | | | | | | |
| PAYMASTER 202 | | | | | | | | | | | | | | | | | | | | | |
| SLM SP | 43 | 31 | 307 | 102 | 8.0 | 6.1 | 120 | 120 | 10 | 38 | 49 | 74.4 | 10.2 | 90.0 | 6.1 | 29.2 | 30.9 | 30.9 | | | |
| SLM LT SP | 42 | 31 | 322 | 103 | 8.0 | 7.0 | 120 | 100 | 12 | 34 | 48 | 76.4 | 9.8 | 92.6 | 5.1 | 29.0 | 31.5 | 31.5 | | | |
| SLM LT SP | 42 | 31 | 299 | 97 | 7.3 | 6.5 | 110 | 110 | 8 | 52 | 51 | 74.3 | 10.4 | 90.9 | 4.9 | 26.8 | 33.0 | 33.0 | | | |
| SLM SP | 43 ²⁾ | 32 | 315 | 99 | 8.1 | 6.8 | 130 | 100 | 4 | 14 | 50 | 73.3 | 10.8 | 93.6 | 3.8 | 28.4 | 32.2 | 32.2 | | | |
| DODSON | | | | | | | | | | | | | | | | | | | | | |
| TAMCOT SP-21 | | | | | | | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 295 | 96 | 7.1 | 6.4 | 130 | 110 | 4 | 42 | 46 | 75.2 | 10.2 | 90.6 | 5.5 | 28.7 | 31.7 | 31.7 | | | |
| SLM LT SP | 42 | 32 | 289 | 95 | 6.7 | 6.2 | 120 | 110 | 8 | 30 | 45 | 76.1 | 10.3 | 90.7 | 4.7 | 26.8 | 32.8 | 32.8 | | | |
| SLM SP | 43 | 32 | 312 | 102 | 7.5 | 6.4 | 110 | 100 | 6 | 48 | 54 | 67.3 | 10.8 | 90.9 | 5.2 | 28.2 | 31.7 | 31.7 | | | |
| J REDUCED FROM 43 BECAUSE OF BARK. | | | | | | | | | | | | | | | | | | | | | |
| J REDUCED FROM 33 BECAUSE OF BARK. | | | | | | | | | | | | | | | | | | | | | |

¹⁾ REDUCED FROM 43 BECAUSE OF BARK.²⁾ REDUCED FROM 33 BECAUSE OF BARK.

TABLE 5.---CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD | |
|----------------------------------|------|---------------------|-----|------------------|------|-----------------|-------|------------------|------|--------------------|-------|---------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | ZERO : 1/8" GAGE | | 1/8" ELONGATION | | NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD | |
| GRADE : STAPLE | | SPAN : UNIF. | | NAIRE | | GAGE : GAGE | | VISIBLE : TOTAL | | Rd : +b | | COLOR : CODE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | NO. | PCT. |
| SOUTH WEST NORTHWEST TEXAS EARTH | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | |
| LM LT SP 52 | 32 | 1.02 | 45 | | 36 | 83 | 24 | 7.6 | 5.8 | 7.4 | 74.1 | 9.1 | 31-4 |
| SLM LT SP 42 | 32 | 1.01 | 41 | | 35 | 80 | 22 | 7.1 | 3.4 | 6.0 | 74.0 | 9.0 | 31-4 |
| SLM LT SP 42 | 32 | 1.02 | 44 | | 37 | 83 | 21 | 6.0 | 3.2 | 4.9 | 74.4 | 9.1 | 31-4 |
| FLOYDADA | | | | | | | | | | | | | |
| STRIPPER 31 | | | | | | | | | | | | | |
| SLM LT SP 42 | 31 | 0.95 | 45 | | 44 | 88 | 21 | 5.9 | 2.5 | 4.0 | 74.0 | 9.4 | 31-4 |
| SLM LT SP 42 | 30 | 0.93 | 42 | | 40 | 86 | 20 | 6.0 | 2.1 | 4.3 | 75.3 | 9.5 | 31-3 |
| SLM LT SP 42 | 30 | 0.91 | 45 | | 44 | 89 | 21 | 6.4 | 3.5 | 4.6 | 72.5 | 9.4 | 32-2 |
| HALE CENTER | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | |
| LM 51 | 33 | 1.01 | 45 | | 37 | 84 | 23 | 7.1 | 4.0 | 5.6 | 74.4 | 8.0 | 41-3 |
| SLM 41 | 32 | 1.02 | 45 | | 38 | 80 | 23 | 7.4 | 2.6 | 4.2 | 76.2 | 9.0 | 31-3 |
| SLM LT SP 42 | 32 | 1.01 | 42 | | 37 | 79 | 21 | 7.8 | 2.6 | 4.7 | 74.0 | 9.0 | 31-4 |
| HAMLIN | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | |
| SLM SP 43 | 31 | 0.96 | 43 | | 41 | 83 | 20 | 7.0 | 2.7 | 5.2 | 67.3 | 9.6 | 42-2 |
| SLM SP 43 | 31 | 0.95 | 42 | | 42 | 82 | 19 | 7.1 | 3.7 | 6.1 | 67.0 | 10.2 | 43-2 |
| SLM SP 43 | 31 | 0.95 | 43 | | 43 | 84 | 21 | 6.8 | 2.7 | 4.4 | 67.7 | 10.1 | 43-2 |
| LEVELLAND | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | |
| SLM LT SP 42 | 32 | 1.00 | 42 | | 39 | 85 | 21 | 5.7 | 2.6 | 3.4 | 73.0 | 9.4 | 41-3 |
| SLM LT SP 42 | 32 | 0.99 | 44 | | 42 | 88 | 20 | 5.8 | 2.9 | 4.9 | 74.0 | 9.0 | 31-4 |
| SLM LT SP 42 | 32 | 1.01 | 45 | | 40 | 85 | 23 | 6.2 | 2.8 | 4.9 | 74.4 | 9.6 | 31-4 |
| NEW DEAL | | | | | | | | | | | | | |
| STRIPPER 32 | | | | | | | | | | | | | |
| SLM LT SP 42 | 32 | 1.01 | 44 | | 40 | 91 | 23 | 6.2 | 4.2 | 5.2 | 75.3 | 9.6 | 31-4 |
| SLM 41 | 33 | 1.04 | 42 | | 39 | 84 | 22 | 6.4 | 2.3 | 4.4 | 75.3 | 9.6 | 31-3 |
| SLM LT SP 42 | 32 | 0.97 | 47 | | 39 | 88 | 25 | 6.8 | 2.2 | 3.6 | 75.0 | 9.6 | 31-3 |
| LM LT SP 52 <u>2</u> | 32 | 0.97 | 42 | | 43 | 89 | 22 | 5.9 | 3.8 | 5.0 | 71.0 | 10.1 | 32-2 |

1 COTTON STUCK TO PROCESSING ROLLS.
2 REDUCED FROM 42 BECAUSE OF BARK.

TABLE 5.--CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | |
|----------------------------------|------|-----------------|----------|------------|----------|------------|----------|----------|----------|-----|-----|----------------------------------|-------|----------|-------|------|-------|--|--|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | NO. | NO. | Rd : | +b | Rd : | +b | Rd : | -b | | |
| NAME | CODE | 32ND IN. | LBS. | PCT. | PCT. | LBS. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | |
| SOUTH WEST NORTHWEST TEXAS EARTH | | | | | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | | | | | |
| 85 PERCENT | | | | | | | | | | | | | | | | | | | |
| LM LT SP 52 | 32 | 321 | 101 | 8.2 | 7.3 | 110 | 110 | 110 | 110 | 28 | 30 | 51 | 87.6 | 9.8 | 93.7 | 4.6 | 29.8 | | |
| SLM LT SP 42 | 32 | 339 | 103 | 9.0 | 7.5 | 120 | 120 | 110 | 110 | 6 | 20 | 54 | 78.2 | 9.7 | 91.3 | 4.9 | 29.1 | | |
| SLM LT SP 42 | 32 | 325 | 104 | 8.8 | 7.2 | 120 | 120 | 110 | 110 | 2 | 24 | 57 | 77.7 | 9.6 | 94.5 | 4.2 | 28.9 | | |
| FLOYDADA | | | | | | | | | | | | | | | | | | | |
| STRIPPER 31 | | | | | | | | | | | | | | | | | | | |
| 75 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 31 | 318 | 103 | 7.8 | 6.7 | 120 | 120 | 120 | 120 | 8 | 50 | 51 | 76.4 | 9.8 | 91.9 | 5.0 | 28.8 | | |
| SLM LT SP 42 | 30 | 299 | 94 | 7.5 | 6.7 | 120 | 120 | 120 | 120 | 4 | 26 | 41 | 69.8 | 9.6 | 89.6 | 4.7 | 28.5 | | |
| SLM LT SP 42 | 30 | 277 | 85 | 7.3 | 6.3 | 120 | 120 | 110 | 110 | 6 | 34 | 36 | 73.7 | 10.1 | 88.2 | 5.4 | 30.0 | | |
| HALE CENTER | | | | | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | | | | | |
| 85 PERCENT | | | | | | | | | | | | | | | | | | | |
| LM 51 | 33 | 316 | 100 | 8.5 | 6.5 | 130 | 130 | 120 | 120 | 4 | 20 | 54 | 87.8 | 9.3 | 92.6 | 4.6 | 28.9 | | |
| SLM 41 | 32 | 317 | 101 | 8.5 | 7.4 | 120 | 120 | 120 | 120 | 2 | 26 | 52 | 78.4 | 9.6 | 90.9 | 4.9 | 28.2 | | |
| SLM LT SP 42 | 32 | 319 | 100 | 8.7 | 7.5 | 120 | 120 | 110 | 110 | 6 | 44 | 54 | 76.7 | 10.3 | 91.7 | 5.2 | 28.9 | | |
| HAMLIN | | | | | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | | | | | |
| 85 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM SP 43 | 31 | 279 | 90 | 7.8 | 6.8 | 110 | 110 | 120 | 120 | 4 | 50 | 39 | 64.3 | 10.5 | 88.8 | 5.7 | 27.9 | | |
| SLM SP 43 | 31 | 274 | 85 | 8.0 | 6.7 | 110 | 110 | 110 | 110 | 2 | 62 | 38 | 69.5 | 10.8 | 89.1 | 5.2 | 27.0 | | |
| SLM SP 43 | 31 | 294 | 89 | 8.1 | 7.1 | 110 | 110 | 110 | 110 | 4 | 15 | 40 | 70.1 | 10.3 | 89.6 | 5.4 | 30.0 | | |
| LEVELLAND | | | | | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | | | | | |
| 75 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 32 | 283 | 91 | 7.3 | 6.1 | 120 | 120 | 110 | 110 | 14 | 60 | 42 | 75.3 | 10.1 | 90.6 | 5.4 | 29.6 | | |
| SLM LT SP 42 | 32 | 321 | 103 | 8.4 | 7.1 | 120 | 120 | 110 | 110 | 8 | 36 | 50 | 77.7 | 9.4 | 91.1 | 4.8 | 28.7 | | |
| SLM LT SP 42 | 32 | 333 | 112 | 7.8 | 7.0 | 120 | 120 | 110 | 110 | 16 | 26 | 53 | 76.0 | 10.1 | 91.8 | 5.8 | 28.2 | | |
| NEW DEAL | | | | | | | | | | | | | | | | | | | |
| STRIPPER 32 | | | | | | | | | | | | | | | | | | | |
| 90 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 32 | 326 | 107 | 6.7 | 5.9 | 120 | 120 | 110 | 110 | 0 | 0 | 53 | 87.2 | 9.7 | 92.6 | 4.6 | 29.7 | | |
| SLM 41 | 33 | 331 | 107 | 8.4 | 7.3 | 120 | 120 | 110 | 110 | 10 | 32 | 56 | 77.5 | 9.6 | 91.4 | 5.1 | 30.3 | | |
| SLM LT SP 42 | 32 | 334 | 113 | 8.0 | 7.3 | 110 | 110 | 110 | 110 | 12 | 34 | 48 | 70.9 | 10.1 | 91.1 | 5.2 | 25.8 | | |
| LM LT SP 52 | 32 | 311 | 99 | 7.9 | 6.6 | 110 | 110 | 110 | 110 | 2 | 11 | 45 | 73.9 | 10.0 | 89.1 | 5.1 | 30.1 | | |

11 REDUCED FROM 42 BECAUSE OF BARK.

TABLE 5. --CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | |
|--------------------------------------|------------------|---------------|------|--------------|------|------------------|-------|-----------------------|------|------------------|-------|--------------------|------|---------------------|--|
| AND CLASSIFICATION | | 2.5% : 50/2.5 | | SPAN : UNIF. | | ZERO : 1/8" GAGE | | VISIBLE : TOTAL WASTE | | RD | | : +b : CODE | | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | | |
| SOUTH WEST NORTHWEST TEXAS RHINELAND | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 29 | 0.93 | 44 | 44 | 88 | 22 | 6.2 | 3.1 | 4.7 | 70.2 | 10.1 | 42-1 | 8.3 | |
| SLM LT SP | 42 | 31 | 0.96 | 43 | 40 | 84 | 21 | 7.2 | 1.9 | 3.8 | 72.2 | 10.0 | 32-2 | 7.7 | |
| SLM LT SP | 42 | 31 | 0.96 | 42 | 41 | 81 | 20 | 7.8 | 2.4 | 4.7 | 72.0 | 10.2 | 32-2 | 7.4 | |
| SILVERTON | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | |
| SLM | 41 | 32 | 0.99 | 44 | 43 | 82 | 22 | 7.2 | 1.7 | 2.5 | 76.4 | 8.9 | 31-3 | 5.9 | |
| SLM | 41 | 32 | 1.00 | 42 | 42 | 83 | 21 | 6.5 | 1.8 | 3.3 | 76.0 | 8.5 | 31-3 | 6.5 | |
| SLM LT SP | 42 | 32 | 1.00 | 43 | 39 | 85 | 23 | 6.9 | 2.7 | 4.5 | 75.0 | 9.4 | 31-4 | 7.9 | |
| SNYDER | | | | | | | | | | | | | | | |
| WESTERN SP-44 | | | | | | | | | | | | | | | |
| 85 PERCENT | | | | | | | | | | | | | | | |
| LM SP | 53 ^{1J} | 31 | 0.98 | 41 | 38 | 86 | 22 | 5.4 | 3.0 | 4.6 | 63.0 | 10.6 | 43-1 | 7.8 | |
| LM SP | 53 ^{1J} | 32 | 1.01 | 41 | 37 | 85 | 21 | 6.7 | 3.2 | 5.3 | 70.0 | 9.8 | 42-1 | 8.1 | |
| LM SP | 53 ^{1J} | 32 | 0.98 | 42 | 44 | 85 | 20 | 6.1 | 2.9 | 4.0 | 69.5 | 10.0 | 42-1 | 6.1 | |
| SPUR | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | |
| 70 PERCENT | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 0.98 | 47 | 42 | 85 | 22 | 6.9 | 2.7 | 4.4 | 74.0 | 9.7 | 32-1 | 7.9 ^{2J} | |
| SLM SP | 43 | 32 | 1.04 | 47 | 39 | 82 | 23 | 7.6 | 3.0 | 4.9 | 70.0 | 12.2 | 33-4 | 8.2 ^{2J} | |
| SLM SP | 43 | 32 | 1.03 | 42 | 42 | 86 | 21 | 6.0 | 2.9 | 4.7 | 69.7 | 11.2 | 33-2 | 8.7 | |
| SLM SP | 43 | 31 | 0.97 | 42 | 41 | 80 | 21 | 6.0 | 2.9 | 4.8 | 71.2 | 10.4 | 33-2 | 7.9 | |
| TAHOKA | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | |
| 70 PERCENT | | | | | | | | | | | | | | | |
| LM LT SP | 52 | 30 | 0.95 | 45 | 43 | 89 | 23 | 5.8 | 4.7 | 6.0 | 75.0 | 9.8 | 32-1 | 10.6 | |
| SLM LT SP | 42 | 32 | 0.97 | 47 | 42 | 86 | 22 | 6.6 | 4.1 | 5.5 | 73.0 | 9.4 | 31-4 | 9.0 | |
| SLM LT SP | 42 | 30 | 0.95 | 44 | 41 | 87 | 22 | 5.8 | 2.8 | 4.5 | 73.0 | 8.9 | 41-3 | 8.3 | |
| TOKIO | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | |
| 80 PERCENT | | | | | | | | | | | | | | | |
| LM LT SP | 52 ^{3J} | 31 | 0.97 | 43 | 43 | 83 | 22 | 7.2 | 6.3 | 8.7 | 70.3 | 9.7 | 42-2 | 11.6 ^{2J} | |
| BG | 82 ^{3J} | 31 | 0.95 | 46 | 43 | 83 | 22 | 6.7 | 6.3 | 8.4 | 71.0 | 9.4 | 42-1 | 13.2 | |

^{1J}REDUCED FROM 43 BECAUSE OF BARK.^{2J}COTTON STUCK TO PROCESSING ROLLS.^{3J}REDUCED FROM 52 BECAUSE OF BARK.

TABLE 5.--CONTINUED

| PRODUCTION AREA AND CLASSIFICATION | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|--|-------------|-----------------|------|------------|------|------------|-------|-------|-----|-----|-----|----------------------------------|-------|----------|-------|------|-------|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | |
| | | 8s | 22s | 8s | 22s | 8s | 22s | 8s | 22s | NO. | NO. | Rd | +b | Rd | +b | Rd | -b |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS |
| SOUTH WEST NORTHWEST TEXAS RHINELAND | | | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | | | |
| SLM | LT | SP 42 | 29 | 88 | 7.0 | 5.8 | 110 | 110 | 10 | 50 | 38 | 67.0 | 10.3 | 89.5 | 5.4 | 25.9 | 33.0 |
| SLM | LT | SP 42 | 31 | 92 | 7.9 | 6.9 | 110 | 110 | 8 | 74 | 45 | 68.1 | 10.1 | 90.3 | 5.1 | 26.0 | 33.2 |
| SLM | LT | SP 42 | 31 | 95 | 8.6 | 7.1 | 110 | 100 | 18 | 32 | 49 | 73.2 | 10.6 | 91.2 | 4.9 | 28.6 | 31.9 |
| SILVERTON | | | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | | | |
| SLM | 41 | | 32 | 310 | 7.7 | 6.8 | 130 | 120 | 4 | 24 | 52 | 77.5 | 9.5 | 90.5 | 5.4 | 28.7 | 31.6 |
| SLM | 41 | | 32 | 303 | 8.3 | 6.8 | 130 | 120 | 8 | 28 | 49 | 77.2 | 9.4 | 93.2 | 4.6 | 28.5 | 31.6 |
| SLM | LT | SP 42 | 32 | 311 | 7.8 | 6.8 | 120 | 110 | 4 | 14 | 52 | 70.8 | 9.9 | 90.8 | 4.9 | 28.0 | 32.0 |
| SNYDER | | | | | | | | | | | | | | | | | |
| WESTERN SP-44 | | | | | | | | | | | | | | | | | |
| 85 PERCENT | | | | | | | | | | | | | | | | | |
| LM | SP | 53 <u>1</u> | 31 | 300 | 7.8 | 6.5 | 120 | 120 | 6 | 44 | 47 | 64.7 | 11.3 | 89.4 | 5.7 | 26.7 | 32.5 |
| LM | SP | 53 <u>1</u> | 32 | 306 | 7.8 | 6.8 | 100 | 70 | 10 | 54 | 52 | 71.7 | 11.6 | 91.3 | 4.9 | 29.4 | 31.2 |
| LM | SP | 53 <u>1</u> | 32 | 303 | 7.6 | 6.9 | 120 | 110 | 4 | 16 | 47 | 71.1 | 11.0 | 90.0 | 4.8 | 27.4 | 32.6 |
| SPUR | | | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | | | |
| 70 PERCENT | | | | | | | | | | | | | | | | | |
| SLM | LT | SP 42 | 32 | 310 | 7.5 | 6.6 | 120 | 110 | 8 | 24 | 47 | 77.0 | 9.8 | 90.9 | 4.9 | 28.0 | 31.9 |
| SLM | SP | 43 | 32 | 305 | 7.9 | 6.7 | 110 | 100 | 10 | 68 | 48 | 65.0 | 11.8 | 91.1 | 5.8 | 28.7 | 31.4 |
| SLM | SP | 43 | 32 | 296 | 8.0 | 6.8 | 110 | 100 | 8 | 44 | 48 | 65.6 | 11.3 | 89.8 | 5.8 | 26.4 | 32.5 |
| SLM | SP | 43 | 31 | 292 | 7.5 | 6.9 | 110 | 120 | 10 | 30 | 42 | 66.7 | 11.2 | 89.8 | 5.8 | 26.4 | 32.8 |
| TAHOKA | | | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | | | |
| 70 PERCENT | | | | | | | | | | | | | | | | | |
| LM | LT | SP 52 | 30 | 294 | 6.7 | 5.9 | 120 | 120 | 0 | 0 | 43 | 85.2 | 10.6 | 91.3 | 5.1 | 28.3 | 31.7 |
| SLM | LT | SP 42 | 32 | 291 | 6.8 | 6.2 | 120 | 110 | 2 | 40 | 40 | 86.2 | 10.0 | 92.5 | 4.6 | 29.4 | 30.9 |
| SLM | LT | SP 42 | 30 | 293 | 7.4 | 6.4 | 120 | 110 | 6 | 20 | 43 | 73.8 | 10.4 | 89.2 | 5.8 | 28.2 | 32.0 |
| TOKIO | | | | | | | | | | | | | | | | | |
| GSA 71 | | | | | | | | | | | | | | | | | |
| 80 PERCENT | | | | | | | | | | | | | | | | | |
| LM | LT | SP 52 | 31 | 285 | 7.6 | 6.5 | 120 | 90 | 0 | 28 | 35 | 72.6 | 10.7 | 90.8 | 6.0 | 28.5 | 31.6 |
| BG | 82 <u>2</u> | 31 | 285 | 92 | 7.3 | 6.4 | 120 | 120 | 12 | 42 | 41 | 68.4 | 10.4 | 91.1 | 5.6 | 28.6 | 31.8 |

1REDUCED FROM 43 BECAUSE OF BARK.2REDUCED FROM 52 BECAUSE OF BARK.

TABLE 5.--CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD | |
|-----------------------------------|------|----------------------------|-----|--------------------|------|--------------------|-------|-----------------|------|-------------------------|------|--------------------|------|---------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. SPAN : | | ZERO : 1/8" GAGE : | | ZERO : 1/8" GAGE : | | 1/8" ELONGATION | | NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD | |
| GRADE : STAPLE | | SPAN : | | UNIF. : | | GAGE : | | GAGE : | | VISIBLE : TOTAL WASTE : | | COLOR OF RAW STOCK | | PICKER & CARD | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. |
| SOUTH WEST NORTHWEST TEXAS VERNON | | | | | | | | | | | | | | | |
| LOCKETT 77 | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 33 | 1.00 | 43 | | 43 | 99 | 21 | 4.6 | | 3.8 | 4.7 | 73.0 | 9.2 | 31-4 | 8.2 |
| SLM LT SP 42 | 33 | 0.98 | 45 | | 42 | 93 | 23 | 5.3 | | 3.5 | 5.4 | 73.0 | 9.5 | 32-2 | 8.9 |
| SLM LT SP 42 | 32 | 0.99 | 43 | | 44 | 93 | 22 | 5.7 | | 3.8 | 6.0 | 73.0 | 9.4 | 32-2 | 7.3 |
| WOODSON | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | |
| SLM SP 43 | 30 | 0.95 | 43 | | 45 | 86 | 19 | 5.7 | | 4.0 | 6.4 | 68.0 | 10.2 | 43-2 | 8.9 |
| SLM SP 43 | 31 | 0.96 | 43 | | 44 | 87 | 20 | 6.5 | | 4.1 | 6.3 | 69.7 | 9.7 | 42-1 | 9.5 |
| SLM SP 43 | 30 | 0.94 | 43 | | 46 | 88 | 19 | 6.6 | | 3.5 | 5.7 | 67.2 | 10.2 | 43-2 | 9.7 |
| OKLAHOMA BURNS FLAT | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 30 | 0.91 | 43 | | 39 | 92 | 20 | 6.6 | | 3.9 | 5.2 | 73.0 | 10.0 | 32-1 | 8.4 |
| M LT SP 32 | 32 | 0.94 | 45 | | 45 | 87 | 21 | 5.7 | | 2.1 | 3.7 | 73.0 | 9.5 | 32-2 | 7.7 |
| SLM LT SP 42 | 31 | 0.98 | 44 | | 43 | 88 | 22 | 6.5 | | 2.6 | 4.1 | 74.0 | 10.2 | 32-1 | 8.2 |
| GRANITE | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | |
| M LT SP 32 | 32 | 1.01 | 43 | | 39 | 83 | 22 | 6.7 | | 2.8 | 4.6 | 76.3 | 9.6 | 31-3 | 7.7 |
| M LT SP 32 | 32 | 0.97 | 44 | | 40 | 93 | 20 | 5.7 | | 2.9 | 5.2 | 72.3 | 9.2 | 31-4 | 7.5 |
| SLM LT SP 42 | 31 | 0.98 | 43 | | 43 | 88 | 22 | 5.9 | | 3.0 | 5.5 | 75.0 | 10.2 | 32-1 | 8.4 |
| GREENFIELD | | | | | | | | | | | | | | | |
| WESTBURN M | | | | | | | | | | | | | | | |
| 90 PERCENT | | | | | | | | | | | | | | | |
| M LT SP 32 | 31 | 0.97 | 43 | | 44 | 95 | 23 | 5.6 | | 2.4 | 4.0 | 76.0 | 9.5 | 31-3 | 7.0 |
| SLM LT SP 42 | 32 | 1.01 | 44 | | 43 | 92 | 23 | 6.5 | | 2.3 | 3.8 | 77.0 | 8.9 | 31-3 | 8.2 |
| SLM LT SP 42 | 31 | 0.97 | 42 | | 42 | 92 | 21 | 5.6 | | 2.7 | 4.9 | 74.0 | 9.4 | 31-4 | 8.2 |
| NEW MEXICO TUCUMCARI | | | | | | | | | | | | | | | |
| RILCOT 90 | | | | | | | | | | | | | | | |
| 80 PERCENT | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 30 | 0.95 | 45 | | 39 | 87 | 22 | 6.2 | | 2.5 | 4.0 | 75.0 | 10.1 | 22-2 | 7.8 |
| SLM LT SP 42 | 32 | 0.97 | 45 | | 38 | 86 | 21 | 6.3 | | 3.3 | 4.2 | 75.3 | 9.8 | 21-4 | 6.3 |
| SLM LT SP 42 | 32 | 1.01 | 44 | | 35 | 82 | 22 | 6.5 | | 2.8 | 3.8 | 76.2 | 9.5 | 21-4 | 6.3 |

TABLE 5.--CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|--------------------|------|-----------------|----------|------------|----------|------------|----------|----------|----------|-----|-----|----------------------------------|---------|----------|---------|---------|-------|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | |
| GRADE : STAPLE | | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | 8s : 22s | NO. | NO. | Rd : +b | Rd : +b | Rd : +b | Rd : +b | Rd : -b | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS |
| SOUTH WEST | | | | | | | | | | | | | | | | | |
| NORTHWEST TEXAS | | | | | | | | | | | | | | | | | |
| VERNON | | | | | | | | | | | | | | | | | |
| LOCKETT 77 | | | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 33 | 324 | 104 | 7.2 | 6.1 | 120 | 120 | 8 | 36 | 53 | 73.9 | 10.6 | 90.0 | 5.6 | 29.2 | 30.8 |
| SLM LT SP | 42 | 33 | 302 | 112 | 6.8 | 5.9 | 120 | 100 | 2 | 36 | 45 | 68.6 | 10.4 | 90.3 | 5.9 | 28.3 | 31.7 |
| SLM LT SP | 42 | 32 | 304 | 98 | 7.0 | 5.9 | 120 | 110 | 2 | 30 | 44 | 73.9 | 10.3 | 89.8 | 5.4 | 29.1 | 31.2 |
| WOODSON | | | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | | | |
| SLM SP | 43 | 30 | 274 | 84 | 6.4 | 5.8 | 110 | 110 | 2 | 42 | 39 | 65.5 | 10.5 | 89.1 | 5.9 | 25.5 | 33.0 |
| SLM SP | 43 | 31 | 269 | 88 | 7.0 | 6.2 | 110 | 120 | 8 | 22 | 38 | 70.5 | 10.5 | 88.7 | 5.6 | 27.2 | 32.1 |
| SLM SP | 43 | 30 | 256 | 78 | 6.6 | 5.8 | 110 | 100 | 18 | 46 | 33 | 69.8 | 10.6 | 88.5 | 6.0 | 29.1 | 31.0 |
| OKLAHOMA | | | | | | | | | | | | | | | | | |
| BURNS FLAT | | | | | | | | | | | | | | | | | |
| LANKART 611 | | | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 30 | 275 | 83 | 6.6 | 6.0 | 120 | 100 | 10 | 52 | 34 | 73.6 | 9.2 | 89.6 | 5.7 | 26.9 | 32.0 |
| M LT SP | 32 | 32 | 280 | 89 | 7.2 | 6.0 | 120 | 110 | 4 | 14 | 39 | 75.6 | 10.3 | 90.6 | 5.6 | 27.6 | 32.1 |
| SLM LT SP | 42 | 31 | 295 | 93 | 7.0 | 6.1 | 110 | 100 | 8 | 46 | 40 | 68.5 | 10.3 | 89.6 | 6.0 | 28.3 | 31.6 |
| GRANITE | | | | | | | | | | | | | | | | | |
| LANKART 57 | | | | | | | | | | | | | | | | | |
| M LT SP | 32 | 32 | 328 | 105 | 7.1 | 6.6 | 120 | 120 | 8 | 42 | 53 | 77.1 | 10.2 | 94.2 | 4.6 | 27.6 | 32.4 |
| M LT SP | 32 | 32 | 300 | 99 | 7.6 | 6.6 | 110 | 110 | 8 | 36 | 44 | 74.6 | 10.6 | 90.4 | 5.7 | 27.7 | 32.1 |
| SLM LT SP | 42 | 31 | 296 | 95 | 7.0 | 6.1 | 110 | 110 | 10 | 32 | 45 | 68.6 | 10.9 | 90.4 | 5.6 | 28.8 | 31.4 |
| GREENFIELD | | | | | | | | | | | | | | | | | |
| WESTBURN M | | | | | | | | | | | | | | | | | |
| 90 PERCENT | | | | | | | | | | | | | | | | | |
| M LT SP | 32 | 31 | 300 | 99 | 7.2 | 6.4 | 110 | 110 | 6 | 38 | 45 | 76.6 | 9.9 | 92.1 | 5.3 | 28.0 | 32.0 |
| SLM | 41 | 32 | 295 | 96 | 6.9 | 5.9 | 110 | 110 | 0 | 36 | 41 | 71.7 | 9.6 | 90.7 | 4.8 | 29.1 | 31.5 |
| SLM LT SP | 42 | 31 | 300 | 94 | 7.1 | 5.9 | 120 | 110 | 4 | 26 | 40 | 70.4 | 9.7 | 90.3 | 5.1 | 26.2 | 33.7 |
| NEW MEXICO | | | | | | | | | | | | | | | | | |
| TUCUMCARI | | | | | | | | | | | | | | | | | |
| RILCOT 90 | | | | | | | | | | | | | | | | | |
| 80 PERCENT | | | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 30 | 331 | 104 | 8.6 | 7.5 | 110 | 110 | 6 | 42 | 51 | 76.3 | 10.5 | 92.6 | 4.5 | 28.5 | 31.9 |
| SLM LT SP | 42 | 32 | 327 | 103 | 8.4 | 7.4 | 110 | 110 | 4 | 11 | 48 | 75.7 | 10.5 | 92.5 | 4.2 | 29.7 | 31.2 |
| SLM LT SP | 42 | 32 | 319 | 100 | 8.5 | 7.3 | 100 | 110 | 5 | 14 | 47 | 76.6 | 10.0 | 91.7 | 4.4 | 27.8 | 32.5 |

TABLE 5A.-COTTON: AMERICAN UPLAND SHORT STAPLE QUALITY CHARACTERISTICS OF YARN SPUN ON AN OPEN-END FRAME, BY PRODUCTION AREA AND CLASSIFICATION, CROP OF 1980.

| PRODUCTION AREA | | | | YARN PROPERTIES | | | | |
|----------------------|------|----------|------|-----------------|------------|------------|------|--|
| AND CLASSIFICATION | | | | STRENGTH | ELONGATION | APPEARANCE | NEPS | |
| GRADE | : | STAPLE | | 8s | 8s | 8s | 8s | |
| NAME | CODE | 32ND IN. | LBS. | PCT. | INDEX | NO. | | |
| CENTRAL TEXAS | | | | | | | | |
| BYERS | | | | | | | | |
| LANKART 611 | | | | | | | | |
| SLM LT SP 42 | 30 | 236 | 6.8 | 90 PERCENT | 110 | 2 | | |
| SLM LT SP 42 | 30 | 215 | 6.5 | | 120 | 0 | | |
| LM LT SP 52 <u>1</u> | 32 | 254 | 7.4 | | 120 | 6 | | |
| COMMERCE | | | | | | | | |
| LANKART 57 | | | | | | | | |
| M LT SP 32 | 28 | 214 | 6.2 | 95 PERCENT | 110 | 0 | | |
| M LT SP 32 | 29 | 220 | 6.4 | | 110 | 2 | | |
| M LT SP 32 | 29 | 232 | 7.3 | | 110 | 2 | | |
| COVINGTON | | | | | | | | |
| LANKART LX571 | | | | | | | | |
| M 31 | 30 | 230 | 6.7 | 97 PERCENT | 120 | 2 | | |
| SLM LT SP 42 | 30 | 219 | 5.9 | | 110 | 2 | | |
| M LT SP 32 | 30 | 222 | 6.5 | | 120 | 2 | | |
| FERRIS | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | |
| SLM 41 | 30 | 224 | 7.3 | 98 PERCENT | 110 | 0 | | |
| SLM 41 | 30 | 255 | 7.7 | | 120 | 0 | | |
| SLM LT SP 42 | 30 | 248 | 7.0 | | 120 | 0 | | |
| GRANDVIEW | | | | | | | | |
| GP 3774 | | | | | | | | |
| M LT SP 32 | 29 | 216 | 6.4 | 100 PERCENT | 120 | 4 | | |
| M LT SP 32 | 29 | 223 | 7.3 | | 120 | 0 | | |
| M LT SP 32 | 29 | 234 | 7.4 | | 130 | 2 | | |
| HOLLAND | | | | | | | | |
| LANKART 57 | | | | | | | | |
| SLM 41 | 29 | 231 | 6.4 | 75 PERCENT | 120 | 4 | | |
| SLM 41 | 29 | 226 | 6.5 | | 120 | 0 | | |
| SLM SP 43 | 29 | 225 | 6.1 | | 110 | 0 | | |

¹REDUCED FROM 42 BECAUSE OF GRASS

TABLE 5A. - CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | |
|-----------------------|----------|---------------|-----------------|------------|------------|------|----|
| AND CLASSIFICATION | | | STRENGTH | ELONGATION | APPEARANCE | NEPS | |
| GRADE | : STAPLE | 8s | 8s | 8s | 8s | 8s | 8s |
| NAME | CODE | 32ND IN. | LBS. | PCT. | INDEX | NO. | |
| CENTRAL TEXAS | | | | | | | |
| TEMPLE | | LANKART LX571 | | 90 PERCENT | | | |
| SLM 41 | 29 | 226 | 5.7 | | 120 | | 2 |
| SLM 41 | 29 | 226 | 6.3 | | 110 | | 2 |
| SLM LT SP 42 | 29 | 231 | 6.7 | | 120 | | 0 |
| NORTHWEST TEXAS | | | | | | | |
| ABERNATHY | | GSA 71 | | 70 PERCENT | | | |
| SLM LT SP 42 | 30 | 252 | 7.2 | | 110 | | 0 |
| SLM LT SP 42 | 31 | 256 | 7.7 | | 120 | | 0 |
| SLM LT SP 42 | 32 | 269 | 7.9 | | 110 | | 0 |
| BIG SPRING | | | | | | | |
| | | TAMCOT SP-37H | | 70 PERCENT | | | |
| SLM LT SP 43 | 31 | 245 | 7.1 | | 120 | | 0 |
| LM LT SP 52 <u>1J</u> | 32 | 246 | 8.0 | | 120 | | 4 |
| LM SP 53 <u>2J</u> | 32 | 260 | 7.1 | | 110 | | 2 |
| BOVINA | | | | | | | |
| | | QUAPAW | | 80 PERCENT | | | |
| SLM LT SP 42 | 32 | 268 | 7.3 | | 120 | | 2 |
| SLM LT SP 42 | 32 | 272 | 8.1 | | 110 | | 0 |
| SLM LT SP 42 | 33 | 264 | 7.2 | | 120 | | 0 |
| BURKBURNETT | | | | | | | |
| | | LANKART LX571 | | 80 PERCENT | | | |
| SLM LT SP 42 | 32 | 230 | 6.6 | | 110 | | 8 |
| SLM LT SP 42 | 32 | 231 | 6.5 | | 110 | | 0 |
| SLM LT SP 42 | 32 | 245 | 7.1 | | 110 | | 0 |

1J/REDUCED FROM 42 BECAUSE OF BARK.

2J/REDUCED FROM 43 BECAUSE OF BARK.

TABLE 5A. - CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | |
|--------------------|------|---------------|-----------------|------------|------------|----------|
| AND CLASSIFICATION | | | STRENGTH | ELONGATION | APPEARANCE | NEPS |
| GRADE : STAPLE | | | 8 s | 8 s | 8 s | 8 s |
| NAME | CODE | 32ND IN. | LBS. | PCT. | INDEX | NO. |
| NORTHWEST TEXAS | | | | | | |
| CHALK | | LANKART 611 | | 90 PERCENT | | |
| SLM 41 | 31 | | 226 | 7.0 | 110 | 0 |
| SLM LT SP 42 | 32 | | <u>1</u> | <u>1</u> | <u>1</u> | <u>1</u> |
| SLM LT SP 42 | 31 | | 235 | 6.9 | 110 | .2 |
| COLORADO CITY | | | | | | |
| | | TAMCOT SP-37 | | 70 PERCENT | | |
| LM SP | 32 | | 245 | 7.0 | 120 | 0 |
| LM SP 53 <u>2</u> | 32 | | 245 | 7.4 | 110 | 0 |
| LM SP 53 <u>2</u> | 32 | | 245 | 7.7 | 120 | 0 |
| CROWELL | | | | | | |
| | | LANKART 57 | | 90 PERCENT | | |
| SLM LT SP 42 | 31 | | 230 | 7.2 | 110 | 0 |
| SLM LT SP 42 | 31 | | 231 | 6.7 | 120 | 0 |
| SLM LT SP 42 | 31 | | 230 | 6.7 | 110 | 2 |
| DIMMITT | | | | | | |
| | | PAYMASTER 202 | | 90 PERCENT | | |
| SLM SP 43 | 31 | | 260 | 7.6 | 110 | 20 |
| SLM LT SP 42 | 31 | | 268 | 8.3 | 110 | 2 |
| SLM LT SP 42 | 31 | | 244 | 7.0 | 110 | 0 |
| SLM SP 43 <u>3</u> | 32 | | 267 | 8.1 | 110 | 0 |
| DODSON | | | | | | |
| | | TAMCOT SP-21 | | 75 PERCENT | | |
| SLM LT SP 42 | 32 | | 237 | 7.0 | 110 | 4 |
| SLM LT SP 42 | 32 | | 245 | 6.8 | 120 | 0 |
| SLM SP 43 | 32 | | 255 | 6.9 | 120 | 0 |

1 INSUFFICIENT LINT FOR TEST.

2 REDUCED FROM 43 BECAUSE OF BARK.

3 REDUCED FROM 33 BECAUSE OF BARK.

TABLE 5A. - CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | |
|--------------------|------|----------|-----------------|------------|------------|-------|----|--|
| AND CLASSIFICATION | | | STRENGTH | ELONGATION | APPEARANCE | NEPS | | |
| GRADE | : | STAPLE | 8s | 8s | 8s | 8s | 8s | |
| NAME | CODE | 32ND IN. | LBS. | | PCT. | INDEX | | |
| NORTHWEST TEXAS | | | GSA 71 | | 85 PERCENT | | | |
| LM LT SP 52 | 32 | | 266 | 7.9 | | | 0 | |
| SLM LT SP 42 | 32 | | 269 | 8.1 | | | 0 | |
| SLM LT SP 42 | 32 | | 265 | 8.0 | | | 2 | |
| FLOYDADA | | | STRIPPER 31 | | 75 PERCENT | | | |
| SLM LT SP 42 | 31 | | 261 | 7.4 | | | 0 | |
| SLM LT SP 42 | 30 | | 247 | 7.3 | | | 2 | |
| SLM LT SP 42 | 30 | | 229 | 6.4 | | | 0 | |
| HALE CENTER | | | GSA 71 | | 85 PERCENT | | | |
| LM 51 | 33 | | 262 | 8.0 | | | 2 | |
| SLM 41 | 32 | | 261 | 7.8 | | | 2 | |
| SLM LT SP 42 | 32 | | 258 | 8.3 | | | 2 | |
| HAMLIN | | | LANKART 611 | | 85 PERCENT | | | |
| SLM SP 43 | 31 | | 228 | 7.0 | | | 0 | |
| SLM SP 43 | 31 | | 224 | 7.5 | | | 2 | |
| SLM SP 43 | 31 | | 235 | 7.0 | | | 0 | |
| LEVELLAND | | | GSA 71 | | 75 PERCENT | | | |
| SLM LT SP 42 | 32 | | 242 | 7.2 | | | 0 | |
| SLM LT SP 42 | 32 | | 264 | 7.9 | | | 2 | |
| SLM LT SP 42 | 32 | | 269 | 7.5 | | | 0 | |
| NEW DEAL | | | STRIPPER 32 | | 90 PERCENT | | | |
| SLM LT SP 42 | 32 | | 271 | 7.0 | | | 0 | |
| SLM 41 | 33 | | 266 | 7.9 | | | 6 | |
| SLM LT SP 42 | 32 | | 282 | 8.0 | | | 0 | |
| LM LT SP 52 1J | 32 | | 260 | 7.5 | | | 0 | |

1J REDUCED FROM 42 BECAUSE OF BARK.

TABLE 5A. - CONTINUED

| PRODUCTION AREA | | | | YARN PROPERTIES | | | | |
|--------------------|------|----------|--|-----------------|------------|------------|------------|----|
| AND CLASSIFICATION | | | | STRENGTH | ELONGATION | APPEARANCE | NEPS | |
| GRADE | : | STAPLE | | 8s | 8s | 8s | 8s | 8s |
| NAME | CODE | 32ND IN. | | LBS. | PCT. | INDEX | NO. | |
| NORTHWEST TEXAS | | | | | | | | |
| RHINELAND | | | | LANKART 611 | | | | |
| SLM LT SP 42 | 29 | | | 229 | 6.8 | 110 | 70 PERCENT | |
| SLM LT SP 42 | 31 | | | 241 | 7.8 | 110 | 0 | |
| SLM LT SP 42 | 31 | | | 246 | 7.8 | 110 | 0 | |
| SILVERTON | | | | GSA 71 | | | | |
| SLM 41 | 32 | | | 262 | 7.8 | 110 | 0 | |
| SLM 41 | 32 | | | 251 | 8.1 | 120 | 0 | |
| SLM LT SP 42 | 32 | | | 261 | 7.6 | 110 | 0 | |
| SNYDER | | | | WESTERN SP-44 | | | | |
| LM SP 53 <u>1/</u> | 31 | | | 247 | 7.3 | 110 | 0 | |
| LM SP 53 <u>1/</u> | 32 | | | 257 | 7.7 | 110 | 2 | |
| LM SP 53 <u>1/</u> | 32 | | | 241 | 7.5 | 120 | 0 | |
| SPUR | | | | LANKART 611 | | | | |
| SLM LT SP 42 | 32 | | | 258 | 7.0 | 120 | 0 | |
| SLM SP 43 | 32 | | | 246 | 7.5 | 110 | 0 | |
| SLM SP 43 | 32 | | | 242 | 8.2 | 110 | 0 | |
| SLM SP 43 | 31 | | | 238 | 7.8 | 110 | 4 | |
| TAHOKA | | | | GSA 71 | | | | |
| LM LT SP 52 | 30 | | | 245 | 6.9 | 110 | 0 | |
| SLM LT SP 42 | 32 | | | 252 | 7.2 | 110 | 2 | |
| SLM LT SP 42 | 30 | | | 253 | 7.8 | 110 | 0 | |
| TOKIO | | | | GSA 71 | | | | |
| LM LT SP 52 | 31 | | | 240 | 7.5 | 120 | 0 | |
| BC 82 <u>2/</u> | 31 | | | 227 | 6.8 | 120 | 0 | |

1/ REDUCED FROM 43 BECAUSE OF BARK.
2/ REDUCED FROM 52 BECAUSE OF BARK.

TABLE 5A. - CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | |
|--------------------|------|----------|-----------------|------------|------------|------|
| AND CLASSIFICATION | | | STRENGTH | ELONGATION | APPEARANCE | NEPS |
| GRADE | : | STAPLE | 8s | 8s | 8s | 8s |
| NAME | CODE | 32ND IN. | LBS. | PCT. | INDEX | NO. |
| NORTHWEST TEXAS | | | | | | |
| VERNON | | | LOCKETT 77 | 72 PERCENT | | |
| SLM LT SP 42 | 33 | | 250 | 6.6 | 110 | 0 |
| SLM LT SP 42 | 33 | | 259 | 7.0 | 110 | 0 |
| SLM LT SP 42 | 32 | | 247 | 7.0 | 110 | 0 |
| WOODSON | | | LANKART 57 | 98 PERCENT | | |
| SLM SP 43 | 30 | | 219 | 6.9 | 110 | 0 |
| SLM SP 43 | 31 | | 220 | 7.0 | 110 | 4 |
| SLM SP 43 | 30 | | 200 | 6.6 | 110 | 2 |
| OKLAHOMA | | | | | | |
| BURNS FLAT | | | LANKART 611 | 70 PERCENT | | |
| SLM LT SP 42 | 30 | | 234 | 7.5 | 100 | 8 |
| M LT SP 32 | 32 | | 237 | 7.4 | 120 | 0 |
| SLM LT SP 42 | 31 | | 241 | 7.0 | 110 | 0 |
| GRANITE | | | LANKART 57 | 80 PERCENT | | |
| M LT SP 32 | 32 | | 268 | 7.7 | 110 | 4 |
| M LT SP 32 | 32 | | 247 | 7.8 | 110 | 0 |
| SLM LT SP 42 | 31 | | 248 | 7.0 | 120 | 0 |
| GREENFIELD | | | WESTBURN M | 90 PERCENT | | |
| M LT SP 32 | 31 | | 259 | 7.7 | 120 | 0 |
| SLM 41 | 32 | | 258 | 7.5 | 110 | 0 |
| SLM LT SP 42 | 31 | | 249 | 6.8 | 120 | 0 |
| NEW MEXICO | | | RILCOT 90 | 80 PERCENT | | |
| TUCUMCARI | | | | | | |
| SLM LT SP 42 | 30 | | 268 | 8.0 | 110 | 0 |
| SLM LT SP 42 | 32 | | 270 | 8.6 | 120 | 0 |
| SLM LT SP 42 | 32 | | 264 | 7.8 | 110 | 0 |

TABLE 6.--COTTON: AMERICAN UPLAND MEDIUM STAPLE FIBER AND YARN QUALITY CHARACTERISTICS BY PRODUCTION AREA AND CLASSIFICATION, CROP OF 1980.

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | |
|--------------------|------|----------------------------|------|-------------|------|------------------|-------|-----------------|------|-------------------------------|------|--------------------|-------|---------------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. : SPAN | | NAIRE | | ZERO : 1/8" GAGE | | 1/8" ELONGATION | | VISIBLE : TOTAL WASTE : WASTE | | : +b : Rd | | : COLOR : CODE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. |
| ALABAMA | | | | | | | | | | | | | | | |
| ALICEVILLE | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.08 | 43 | 40 | 91 | 22 | 5.7 | 2.0 | 3.1 | 73.7 | 9.7 | 32-2 | 6.3 | |
| SLM LT SP | 42 | 34 | 1.06 | 43 | 42 | 91 | 22 | 5.6 | 2.0 | 3.0 | 70.0 | 9.1 | 42-2 | 6.7 | |
| SLM LT SP | 42 | 34 | 1.04 | 42 | 45 | 89 | 22 | 6.2 | 2.0 | 3.0 | 74.4 | 9.2 | 31-4 | 7.3 | 1/ |
| AUTAUGAVILLE | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.10 | 45 | 50 | 87 | 23 | 6.6 | 1.7 | 2.6 | 74.0 | 9.4 | 31-4 | 6.1 | |
| SLM | 41 | 35 | 1.07 | 43 | 46 | 88 | 23 | 6.6 | 1.5 | 2.0 | 74.1 | 9.4 | 31-4 | 7.0 | |
| SLM | 41 | 34 | 1.05 | 43 | 45 | 84 | 23 | 6.6 | 1.8 | 2.9 | 75.0 | 8.2 | 41-3 | 6.9 | |
| FAYETTE | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.10 | 44 | 45 | 91 | 23 | 6.0 | 2.1 | 3.3 | 72.7 | 9.4 | 31-4 | 6.9 | |
| SLM LT SP | 42 | 34 | 1.06 | 41 | 41 | 88 | 22 | 6.2 | 1.7 | 2.8 | 68.3 | 9.4 | 42-2 | 7.0 | |
| SLM LT SP | 42 | 34 | 1.05 | 42 | 46 | 89 | 22 | 6.0 | 1.8 | 2.3 | 74.4 | 10.4 | 31-3 | 7.6 | |
| OAKLAND | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | |
| LM+ | 50 | 35 | 1.11 | 43 | 44 | 90 | 23 | 5.4 | 2.5 | 3.5 | 76.3 | 8.3 | 31-2 | 6.7 | |
| LM | 51 | 35 | 1.11 | 44 | 46 | 90 | 22 | 5.4 | 2.8 | 3.4 | 70.1 | 8.3 | 41-4 | 7.0 | |
| SLM LT SP | 42 | 35 | 1.07 | 42 | 45 | 85 | 23 | 6.5 | 1.5 | 2.4 | 75.0 | 8.8 | 31-4 | 7.0 | 1/ |
| PIEDMONT | | | | | | | | | | | | | | | |
| COKER 304 | | | | | | | | | | | | | | | |
| 100 PERCENT | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 35 | 1.07 | 44 | 49 | 91 | 24 | 6.1 | 1.8 | 2.6 | 68.4 | 10.2 | 43-1 | 5.7 | |
| SLM LT SP | 42 | 34 | 1.08 | 43 | 49 | 95 | 24 | 6.2 | 2.1 | 3.3 | 68.0 | 10.4 | 43-2 | 7.1 | |
| SLM LT SP | 42 | 34 | 1.04 | 42 | 49 | 91 | 23 | 6.2 | 1.4 | 2.5 | 74.0 | 8.8 | 32-1 | 6.6 | 1/ |
| SPRING GARDEN | | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | | |
| 100 PERCENT | | | | | | | | | | | | | | | |
| LM LT SP | 52 | 34 | 1.06 | 46 | 50 | 98 | 24 | 5.6 | 3.0 | 3.6 | 68.2 | 10.4 | 43-1 | 7.5 | 1/ |
| LM LT SP | 52 | 34 | 1.05 | 46 | 47 | 93 | 24 | 5.7 | 4.1 | 5.2 | 71.4 | 10.1 | 32-2 | 7.0 | 1/ |
| LM LT SP | 52 | 34 | 1.06 | 45 | 49 | 90 | 24 | 6.1 | 3.7 | 4.9 | 73.4 | 9.5 | 42-1 | 8.6 | 1/ |

1/ COTTON STUCK TO PROCESSING ROLLS.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|--------------------|------|----------|-----------------|------|------------|------|------------|-------|-----------|-----|-----|-----|----------------------------------|-------|----------|-------|---------|-------|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | |
| GRADE : STAPLE | | | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | NO. | NO. | Rd : +b | +b | Rd : +b | +b | Rd : -b | -b |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS |
| ALABAMA | | | | | | | | | | | | | | | | | | |
| ALICEVILLE | | | | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 108 | 36 | 6.4 | 5.1 | 90 | 70 | 34 | 258 | 55 | 55 | 76.0 | 9.7 | 90.9 | 5.5 | 27.3 | 32.9 |
| SLM LT SP 42 | 42 | 34 | 91 | 28 | 5.9 | 4.7 | 100 | 60 | 28 | 100 | 45 | 45 | 72.0 | 9.4 | 91.4 | 4.4 | 29.9 | 31.4 |
| SLM LT SP 42 | 42 | 34 | 93 | 30 | 6.1 | 4.6 | 90 | 60 | 46 | 310 | 45 | 45 | 72.2 | 9.4 | 90.1 | 5.4 | 28.0 | 32.2 |
| AUTAUGAVILLE | | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 103 | 35 | 7.0 | 5.1 | 100 | 60 | 118 | 424 | 52 | 52 | 75.9 | 10.0 | 87.7 | 6.2 | 26.0 | 33.7 |
| SLM | 41 | 35 | 95 | 30 | 6.4 | 4.7 | 100 | 60 | 78 | 418 | 47 | 47 | 75.6 | 9.6 | 93.3 | 4.1 | 26.0 | 33.7 |
| SLM | 41 | 34 | 95 | 30 | 5.8 | 4.6 | 70 | 60 | 90 | 392 | 46 | 46 | 75.0 | 8.9 | 91.3 | 4.4 | 25.9 | 33.5 |
| FAYETTE | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 103 | 34 | 5.8 | 4.7 | 100 | 70 | 58 | 276 | 52 | 52 | 75.2 | 9.8 | 91.5 | 5.3 | 26.2 | 33.1 |
| SLM LT SP 42 | 42 | 34 | 91 | 29 | 5.8 | 4.6 | 90 | 60 | 52 | 596 | 45 | 45 | 71.0 | 10.1 | 93.6 | 4.1 | 27.1 | 33.0 |
| SLM LT SP 42 | 42 | 34 | 87 | 30 | 6.0 | 4.9 | 110 | 60 | 68 | 394 | 39 | 39 | 71.4 | 10.0 | 90.8 | 4.9 | 27.7 | 32.6 |
| OAKLAND | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | |
| LM+ | 50 | 35 | 102 | 34 | 6.6 | 5.2 | 100 | 60 | 82 | 144 | 53 | 53 | 79.6 | 9.0 | 92.8 | 5.0 | 27.5 | 32.6 |
| LM | 51 | 35 | 104 | 32 | 6.4 | 5.0 | 90 | 60 | 162 | 650 | 54 | 54 | 72.9 | 9.1 | 91.7 | 4.1 | 26.9 | 33.1 |
| SLM LT SP 42 | 42 | 35 | 89 | 26 | 5.8 | 4.5 | 100 | 60 | 74 | 356 | 44 | 44 | 73.8 | 9.2 | 91.0 | 4.8 | 28.0 | 32.0 |
| PIEDMONT | | | | | | | | | | | | | | | | | | |
| COKER 304 | | | | | | | | | | | | | | | | | | |
| SLM LT SP 42 | 42 | 35 | 99 | 33 | 5.6 | 4.6 | 80 | 60 | 98 | 330 | 50 | 50 | 70.1 | 10.5 | 90.5 | 4.8 | 26.7 | 33.0 |
| SLM LT SP 42 | 42 | 34 | 100 | 33 | 5.8 | 4.9 | 100 | 60 | 58 | 162 | 51 | 51 | 70.9 | 10.4 | 88.7 | 6.0 | 27.5 | 32.4 |
| SLM LT SP 42 | 42 | 34 | 96 | 30 | 6.0 | 4.5 | 100 | 60 | 86 | 334 | 47 | 47 | 72.3 | 9.9 | 91.5 | 4.5 | 28.0 | 31.7 |
| SPRING GARDEN | | | | | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | | | | | |
| LM LT SP 52 | 52 | 34 | 108 | 37 | 6.1 | 4.6 | 110 | 90 | 64 | 258 | 53 | 53 | 70.8 | 10.9 | 90.6 | 5.0 | 26.5 | 32.8 |
| LM LT SP 52 | 52 | 34 | 103 | 36 | 5.6 | 4.9 | 120 | 80 | 40 | 194 | 52 | 52 | 70.3 | 10.5 | 92.7 | 4.7 | 26.5 | 32.8 |
| LM LT SP 52 | 52 | 34 | 111 | 36 | 6.4 | 4.7 | 110 | 70 | 38 | 212 | 59 | 59 | 72.2 | 9.9 | 89.5 | 5.6 | 27.0 | 32.2 |

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD | |
|--------------------|-------------|---------------------|------|--------------|------|------------------|-------|-----------------|------|-------------------------------|------|--------------------|------|---------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | SPAN : UNIF. | | ZERO : 1/8" GAGE | | G/TEX | | VISIBLE : TOTAL WASTE : WASTE | | Rd : +b : CODE | | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. |
| ALABAMA | | | | | | | | | | | | | | | |
| SULLIGENT | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.08 | 45 | 46 | 90 | 24 | 6.3 | 3.0 | 3.8 | 73.3 | 9.5 | 32-2 | 7.0 | |
| LM | 51 | 35 | 1.08 | 45 | 50 | 89 | 23 | 5.6 | 3.6 | 4.7 | 71.5 | 9.4 | 42-1 | 7.5 | |
| SLM LT SP | 42 | 34 | 1.06 | 44 | 49 | 90 | 22 | 6.2 | 2.3 | 3.3 | 68.0 | 9.2 | 42-2 | 7.7 | |
| GEORGIA | | | | | | | | | | | | | | | |
| BOSTWICK | | | | | | | | | | | | | | | |
| DIXIE KING III | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 33 | 0.98 | 46 | 41 | 96 | 22 | 5.3 | 2.1 | 2.9 | 72.0 | 10.6 | 33-2 | 8.3 | |
| SLM SP | 43 | 32 | 0.97 | 43 | 43 | 92 | 21 | 5.6 | 2.0 | 3.0 | 66.9 | 11.3 | 43-2 | 7.5 | |
| SLM SP | 43 | 31 | 0.97 | 44 | 44 | 94 | 21 | 5.3 | 2.3 | 3.1 | 72.0 | 11.0 | 33-1 | 7.6 | |
| LILLY | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | |
| LM | 51 <u>1</u> | 33 | 0.98 | 46 | 52 | 93 | 21 | 4.7 | 2.6 | 3.8 | 72.8 | 8.9 | 41-3 | 9.4 | |
| LM | 51 <u>1</u> | 33 | 1.04 | 42 | 52 | 93 | 24 | 5.5 | 2.7 | 4.0 | 77.2 | 8.2 | 31-1 | 9.3 | |
| VIENNA | | | | | | | | | | | | | | | |
| COKER 304 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 1.07 | 46 | 44 | 98 | 25 | 5.5 | 3.0 | 3.9 | 69.7 | 10.3 | 43-1 | 7.0 | |
| SLM LT SP | 42 | 33 | 1.06 | 45 | 45 | 91 | 23 | 5.2 | 3.0 | 4.2 | 66.7 | 10.6 | 43-2 | 8.0 | |
| LM LT SP | 52 | 33 | 1.03 | 43 | 42 | 97 | 24 | 5.2 | 3.2 | 4.1 | 70.1 | 9.5 | 42-1 | 8.1 | |
| NORTH CAROLINA | | | | | | | | | | | | | | | |
| LAURINBURG | | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | | |
| LM+ | 50 | 35 | 1.06 | 45 | 43 | 96 | 27 | 5.5 | 3.3 | 4.5 | 73.0 | 9.0 | 41-3 | 7.5 | |
| LM LT SP | 52 | 34 | 1.08 | 44 | 43 | 94 | 23 | 5.4 | 2.5 | 3.1 | 76.0 | 9.0 | 42-2 | 7.0 | |
| LM LT SP | 52 | 35 | 1.10 | 44 | 42 | 91 | 24 | 6.0 | 4.0 | 4.9 | 67.4 | 8.0 | 51-3 | 8.8 | |

1/REDUCED FROM 41 BECAUSE OF GRASS.

TABLE 6. --CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|--------------------|--------------------------------|----------|-----------------|--------------------------------|------------|------|------------|-------|-----------|-----|--------------------------------|------|----------------------------------|------|----------|------|-------|----|--|--|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | NO. | Rd : | +b | Rd : | +b | Rd : | -b | | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | | | |
| ALABAMA | | | DELTAPINE 61 | | | | | | | | | | 95 PERCENT | | | | | | | | | |
| SULLIGENT | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 104 | 35 | 6.6 | 5.2 | 110 | 80 | 64 | 430 | 53 | 77.3 | 9.8 | 91.4 | 4.3 | 26.9 | 33.1 | | | | | |
| LM | 51 | 35 | 103 | 35 | 6.0 | 5.0 | 100 | 70 | 84 | 290 | 54 | 74.2 | 9.7 | 91.7 | 4.7 | 26.3 | 33.3 | | | | | |
| SLM LT SP | 42 | 34 | 86 | 28 | 5.6 | 4.8 | 100 | 60 | 50 | 184 | 36 | 70.5 | 10.0 | 90.3 | 4.9 | 27.5 | 32.8 | | | | | |
| GEORGIA | | | | | | | | | | | | | | | | | | | | | | |
| BOSTWICK | | | DIXIE KING III | | | | | | | | | | 100 PERCENT | | | | | | | | | |
| SLM LT SP | 42 | 33 | 86 | 26 ¹ / ₂ | 5.4 | 4.7 | 100 | 60 | 50 | 86 | 25 ² / ₂ | 72.7 | 10.8 | 90.0 | 5.6 | 27.6 | 31.8 | | | | | |
| SLM SP | 43 | 32 | 79 | 25 ³ / ₂ | 5.3 | 4.9 | 110 | 80 | 68 | 214 | 25 ² / ₂ | 68.6 | 11.3 | 87.0 | 6.9 | 28.0 | 30.7 | | | | | |
| SLM SP | 43 | 31 | 83 | 26 | 5.6 | 4.7 | 110 | 70 | 60 | 314 | 32 | 83.2 | 11.1 | 87.7 | 7.5 | 27.0 | 31.6 | | | | | |
| LILLY | | | STONEVILLE 825 | | | | | | | | | | 75 PERCENT | | | | | | | | | |
| LM | 51 ⁴ / ₂ | 33 | 65 | 19 ³ / ₂ | 4.5 | 4.1 | 90 | 60 | 76 | 270 | 25 ² / ₂ | 75.8 | 9.1 | 91.4 | 4.4 | 26.3 | 33.2 | | | | | |
| LM | 51 ⁴ / ₂ | 33 | 81 | 26 ³ / ₂ | 5.0 | 4.9 | 70 | 70 | 108 | 274 | 25 ² / ₂ | 74.6 | 8.8 | 90.9 | 4.1 | 28.3 | 32.2 | | | | | |
| VIENNA | | | COKER 304 | | | | | | | | | | 80 PERCENT | | | | | | | | | |
| SLM LT SP | 42 | 32 | 100 | 32 | 5.4 | 4.0 | 80 | 70 | 106 | 436 | 47 | 72.6 | 10.7 | 88.7 | 5.6 | 25.4 | 33.4 | | | | | |
| SLM LT SP | 42 | 33 | 100 | 33 | 5.7 | 4.7 | 90 | 60 | 94 | 444 | 52 | 70.7 | 10.6 | 91.8 | 4.7 | 27.6 | 32.4 | | | | | |
| LM LT SP | 52 | 33 | 95 | 32 | 5.6 | 4.7 | 90 | 60 | 88 | 282 | 47 | 69.9 | 10.0 | 88.8 | 5.9 | 28.3 | 31.7 | | | | | |
| NORTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | |
| LAURINBURG | | | MCNAIR 220 | | | | | | | | | | 95 PERCENT | | | | | | | | | |
| LM+ | 50 | 35 | 119 | 41 | 6.6 | 5.4 | 100 | 70 | 72 | 288 | 60 | 76.8 | 9.5 | 91.9 | 4.5 | 26.9 | 32.8 | | | | | |
| LM LT SP | 52 | 34 | 101 | 33 | 6.4 | 4.9 | 80 | 60 | 64 | 338 | 47 | 68.6 | 9.1 | 90.9 | 5.2 | 28.5 | 31.8 | | | | | |
| LM LT SP | 52 | 35 | 109 | 37 | 6.0 | 4.6 | 80 | 70 | 104 | 456 | 65 | 83.3 | 9.2 | 90.8 | 4.8 | 28.8 | 31.8 | | | | | |

¹END BREAKAGE TOO HIGH TO SPIN 50s YARN. 44s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.

²THIS IS AN ESTIMATED VALUE BELOW THE RANGE OF THE TEST.

³END BREAKAGE TOO HIGH TO SPIN 50s YARN. 36s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.

⁴REDUCED FROM 41 BECAUSE OF GRASS.

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|----|----------|------|---------------|----|------------------|----|--------------|-----|-------------|------|----------------|------|-----------------|---|------------------|--|--------------------|--|---------------------|--|-----|--|
| AND CLASSIFICATION | | | | | | | | | | | | | | | | | | | | | | | |
| GRADE | | : STAPLE | | : 2.5% : SPAN | | : 50/2.5 : UNIF. | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | | | |
| NAME | | CODE | | 32ND IN. | | IN. | | PCT. | | RDG. | | MPSI | | G/TEX | | PCT. | | PCT. | | UNITS | | NO. | |
| SOUTH CAROLINA ST MATTHEWS | | | | | | | | | | | | | | | | | | | | | | | |
| COKER 315 | | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.12 | 46 | 41 | 92 | 24 | 5.9 | 2.5 | 3.2 | 75.0 | 8.9 | 31-4 | 6.8 | 1 | | | | | | | | |
| SLM | 41 | 35 | 1.13 | 42 | 46 | 88 | 24 | 5.8 | 1.6 | 2.5 | 68.0 | 9.0 | 42-2 | 7.1 | 1 | | | | | | | | |
| LM | 51 | 34 | 1.08 | 44 | 45 | 89 | 24 | 5.4 | 2.5 | 3.5 | 67.0 | 9.2 | 52-1 | 7.9 | | | | | | | | | |
| ARKANSAS ALTHEIMER | | | | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 35 | 1.08 | 43 | 49 | 94 | 25 | 6.2 | 1.8 | 2.8 | 70.0 | 9.2 | 42-2 | 5.9 | | | | | | | | | |
| SLM LT SP | 42 | 35 | 1.10 | 44 | 45 | 93 | 25 | 6.5 | 1.6 | 2.7 | 75.3 | 8.2 | 31-2 | 5.6 | | | | | | | | | |
| SLM LT SP | 42 | 35 | 1.11 | 43 | 46 | 92 | 25 | 5.7 | 1.7 | 2.5 | 68.4 | 8.2 | 51-3 | 5.2 | | | | | | | | | |
| BAY | | | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.06 | 46 | 45 | 96 | 21 | 5.0 | 3.0 | 4.5 | 73.2 | 9.4 | 31-4 | 9.6 | | | | | | | | | |
| LM LT SP | 52 | 34 | 1.05 | 42 | 48 | 94 | 22 | 5.2 | 3.2 | 4.1 | 72.0 | 9.6 | 32-2 | 9.0 | | | | | | | | | |
| LM LT SP | 52 | 34 | 1.05 | 42 | 48 | 96 | 21 | 5.8 | 3.8 | 5.5 | 64.0 | 8.5 | 52-2 | 9.8 | | | | | | | | | |
| DELL | | | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.09 | 45 | 48 | 92 | 25 | 5.5 | 2.0 | 2.7 | 75.0 | 9.8 | 31-3 | 7.3 | | | | | | | | | |
| LM LT SP | 52 | 34 | 1.08 | 44 | 50 | 92 | 23 | 5.8 | 1.8 | 2.2 | 68.0 | 9.8 | 42-2 | 6.9 | | | | | | | | | |
| SLM LT SP | 42 | 34 | 1.06 | 42 | 48 | 88 | 23 | 5.8 | 2.1 | 3.0 | 74.0 | 9.0 | 41-3 | 6.7 | | | | | | | | | |
| DUMAS | | | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 35 | 1.10 | 44 | 50 | 88 | 24 | 6.1 | 1.0 | 1.8 | 68.7 | 8.8 | 41-4 | 5.5 | | | | | | | | | |
| SLM | 41 | 35 | 1.06 | 44 | 49 | 90 | 22 | 5.9 | 1.1 | 1.8 | 73.0 | 8.7 | 41-3 | 7.0 | 1 | | | | | | | | |
| SLM | 41 | 35 | 1.10 | 43 | 47 | 86 | 23 | 6.2 | 3.0 | 4.2 | 75.3 | 8.3 | 41-1 | 6.2 | 1 | | | | | | | | |
| EUDORA | | | | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | | | | | | | | | |
| 90 PERCENT | | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.10 | 44 | 43 | 95 | 23 | 5.8 | 2.9 | 4.3 | 77.0 | 8.6 | 31-1 | 6.9 | | | | | | | | | |
| LM | 51 | 35 | 1.13 | 44 | 48 | 89 | 24 | 6.0 | 3.3 | 3.9 | 74.0 | 7.8 | 41-2 | 6.6 | | | | | | | | | |
| SLM LT SP | 42 | 35 | 1.12 | 44 | 44 | 94 | 24 | 5.8 | 2.6 | 3.9 | 72.3 | 8.2 | 41-3 | 6.9 | | | | | | | | | |

COTTON STUCK TO PROCESSING ROLLS.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|--------------------|----------|----------|-----------------|------|------------|------|------------|-------|-----------|---------|-----------|-----|----------------------------------|---------|----------|---------|------|--|--|--|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | NO. | Rd : +b | +b | Rd : +b | -b | | | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | PERCENT | NO. | NO. | PCT. | UNITS | PCT. | UNITS | | | | | | |
| SOUTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | |
| ST MATTHEWS | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 114 | 40 | 7.0 | 5.4 | 100 | 100 | 60 | 94 | 552 | 61 | 77.8 | 9.5 | 91.4 | 4.8 | 27.2 | | | | | |
| SLM | 41 | 35 | 107 | 38 | 6.5 | 5.1 | 90 | 90 | 60 | 80 | 480 | 58 | 69.0 | 9.3 | 89.8 | 5.1 | 27.1 | | | | | |
| LM | 51 | 34 | 108 | 36 | 5.4 | 4.3 | 90 | 90 | 60 | 60 | 328 | 63 | 67.9 | 9.4 | 91.1 | 4.6 | 28.9 | | | | | |
| ARKANSAS | | | | | | | | | | | | | | | | | | | | | | |
| ALTHEIMER | | | | | | | | | | | | | | | | | | | | | | |
| SLM | LT SP 42 | 35 | 105 | 35 | 6.3 | 5.1 | 90 | 90 | 60 | 106 | 590 | 42 | 71.9 | 9.9 | 89.5 | 5.1 | 26.1 | | | | | |
| SLM | LT SP 42 | 35 | 103 | 35 | 6.5 | 5.3 | 80 | 80 | 70 | 62 | 326 | 56 | 73.6 | 9.2 | 90.0 | 5.2 | 27.0 | | | | | |
| SLM | LT SP 42 | 35 | 106 | 37 | 6.0 | 4.6 | 80 | 80 | 60 | 84 | 426 | 56 | 71.7 | 8.8 | 90.1 | 4.4 | 27.5 | | | | | |
| BAY | | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 94 | 29 | 5.9 | 4.5 | 90 | 90 | 60 | 86 | 598 | 42 | 75.1 | 10.0 | 91.4 | 5.7 | 27.5 | | | | | |
| LM | LT SP 52 | 34 | 88 | 29 | 5.4 | 4.5 | 90 | 90 | 70 | 128 | 240 | 40 | 68.1 | 9.9 | 90.2 | 5.1 | 28.3 | | | | | |
| LM | LT SP 52 | 34 | 82 | 25 | 5.0 | 3.3 | 90 | 90 | 70 | 96 | 272 | 39 | 67.8 | 9.4 | 89.9 | 4.9 | 26.9 | | | | | |
| DELL | | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 102 | 34 | 5.9 | 4.9 | 90 | 90 | 80 | 74 | 304 | 49 | 77.7 | 9.9 | 90.3 | 5.1 | 26.1 | | | | | |
| LM | LT SP 52 | 34 | 97 | 32 | 6.3 | 4.7 | 100 | 100 | 60 | 96 | 482 | 46 | 70.1 | 9.9 | 91.4 | 3.7 | 25.8 | | | | | |
| SLM | LT SP 42 | 34 | 98 | 31 | 6.4 | 4.8 | 110 | 110 | 70 | 56 | 314 | 50 | 84.2 | 9.3 | 88.7 | 5.8 | 27.1 | | | | | |
| DUMAS | | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 35 | 102 | 33 | 6.4 | 4.8 | 110 | 110 | 80 | 44 | 140 | 53 | 71.1 | 9.0 | 90.1 | 4.0 | 26.2 | | | | | |
| SLM | 41 | 35 | 96 | 30 | 5.8 | 4.6 | 100 | 100 | 70 | 38 | 264 | 50 | 74.1 | 9.1 | 93.2 | 3.6 | 26.2 | | | | | |
| SLM | 41 | 35 | 100 | 34 | 5.4 | 4.3 | 90 | 90 | 70 | 74 | 356 | 54 | 87.0 | 8.9 | 90.1 | 6.1 | 26.7 | | | | | |
| EUDORA | | | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 112 | 38 | 6.5 | 5.4 | 100 | 100 | 70 | 24 | 280 | 56 | 80.5 | 9.1 | 91.6 | 4.6 | 27.2 | | | | | |
| LM | 51 | 35 | 110 | 38 | 6.3 | 5.2 | 90 | 90 | 60 | 44 | 124 | 62 | 77.3 | 8.3 | 92.6 | 4.2 | 28.3 | | | | | |
| SLM | LT SP 42 | 35 | 101 | 33 | 6.3 | 4.5 | 90 | 90 | 60 | 48 | 440 | 52 | 85.0 | 9.5 | 89.9 | 5.1 | 27.8 | | | | | |

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | RDG. | FIBER STRENGTH | | 1/8" ELONGATION | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD | |
|--------------------|----------|---------------------|-------|------|------------------|------|-----------------|-----------------------|------|--------------------|-------|---------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | | ZERO : 1/8" GAGE | | | VISIBLE : TOTAL WASTE | | : +b : CODE | | | |
| GRADE | STAPLE | SPAN | UNIF. | | | | | | | | | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | NO. | PCT. |
| ARKANSAS | | | | | | | | | | | | | |
| LAKE VILLAGE | | | | | | | | | | | | | |
| DELTAPINE 41 | | | | | | | | | | | | | |
| LM | 51 | 36 | 1.11 | 44 | 45 | 91 | 23 | 5.4 | 2.2 | 3.5 | 69.2 | 7.8 | 41-3 |
| SLM | LT SP 42 | 35 | 1.09 | 44 | 46 | 98 | 24 | 5.7 | 2.2 | 3.8 | 71.0 | 8.0 | 41-4 |
| LEACHVILLE | | | | | | | | | | | | | |
| MCNAIR 235 | | | | | | | | | | | | | |
| LM | LT SP 52 | 34 | 1.09 | 43 | 47 | 93 | 24 | 5.8 | 2.4 | 3.0 | 67.3 | 9.4 | 42-2 |
| LM | LT SP 52 | 35 | 1.09 | 44 | 47 | 97 | 26 | 5.6 | 4.8 | 6.1 | 73.2 | 9.0 | 31-4 |
| LM | LT SP 52 | 34 | 1.09 | 44 | 46 | 96 | 25 | 5.3 | 4.3 | 5.7 | 66.4 | 8.0 | 51-3 |
| LEACHVILLE | | | | | | | | | | | | | |
| VAIL 7 | | | | | | | | | | | | | |
| SLM | LT SP 42 | 35 | 1.11 | 42 | 50 | 97 | 22 | 4.7 | 3.6 | 4.7 | 69.5 | 9.4 | 42-2 |
| LM | LT SP 52 | 34 | 1.08 | 41 | 49 | 95 | 22 | 4.4 | 2.7 | 4.0 | 63.5 | 9.3 | 53-1 |
| LM | LT SP 52 | 34 | 1.07 | 41 | 47 | 93 | 20 | 4.6 | 2.0 | 3.9 | 66.3 | 9.0 | 52-1 |
| MARKED TREE | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.12 | 43 | 47 | 95 | 23 | 5.0 | 2.3 | 3.3 | 72.7 | 9.2 | 41-3 |
| SGO | 61 | 35 | 1.10 | 42 | 48 | 89 | 24 | 5.8 | 2.5 | 3.6 | 68.0 | 8.5 | 52-1 |
| LM | 51 | 34 | 1.06 | 41 | 47 | 90 | 22 | 5.4 | 1.7 | 3.7 | 69.0 | 8.0 | 51-3 |
| PINE BLUFF | | | | | | | | | | | | | |
| DELTAPINE 16 | | | | | | | | | | | | | |
| SLM | LT SP 42 | 35 | 1.06 | 43 | 49 | 94 | 23 | 5.7 | 1.8 | 2.6 | 75.4 | 9.2 | 31-4 |
| SLM | 41 | 35 | 1.08 | 45 | 51 | 94 | 23 | 5.9 | 2.1 | 3.2 | 75.0 | 9.9 | 32-1 |
| SLM | LT SP 42 | 34 | 1.05 | 42 | 45 | 86 | 21 | 5.4 | 1.5 | 2.5 | 70.0 | 8.7 | 41-4 |
| LOUISIANA | | | | | | | | | | | | | |
| LAKE PROVIDENCE | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | |
| M | 31 | 35 | 1.11 | 44 | 51 | 84 | 25 | 6.8 | 0.9 | 1.1 | 79.0 | 8.8 | 21-2 |
| SLM | 41 | 34 | 1.12 | 45 | 48 | 88 | 25 | 7.0 | 1.7 | 2.4 | 77.2 | 7.8 | 31-2 |
| SLM | 41 | 35 | 1.13 | 43 | 45 | 86 | 25 | 7.6 | 2.2 | 3.4 | 79.3 | 8.0 | 31-1 |
| SLM | LT SP 42 | 34 | 1.10 | 44 | 44 | 98 | 26 | 5.7 | 2.8 | 3.9 | 73.0 | 9.1 | 41-3 |

COTTON STUCK TO PROCESSING ROLLS.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | |
|--------------------|----------|-----------------|------|------------|------|------------|-------|-----------|-----|-----|-----|----------------------------------|-------|----------|-------|---------|-------|--|--|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | 22s : 50s | | 22s : 50s | | 22s : 50s | | 22s : 50s | | NO. | | Rd : +b | | Rd : +b | | Rd : -b | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | |
| ARKANSAS | | | | | | | | | | | | | | | | | | | |
| LAKE VILLAGE | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 41 | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 36 | 108 | 36 | 6.4 | 4.7 | 110 | 70 | 32 | 118 | 57 | 71.7 | 8.5 | 91.2 | 4.7 | 27.9 | 32.3 | | |
| SLM | LT SP 42 | 35 | 109 | 37 | 5.7 | 4.3 | 90 | 60 | 28 | 268 | 61 | 72.5 | 8.8 | 89.6 | 4.4 | 28.0 | 32.1 | | |
| LEACHVILLE | | | | | | | | | | | | | | | | | | | |
| MCNAIR 235 | | | | | | | | | | | | | | | | | | | |
| LM | LT SP 52 | 34 | 98 | 33 | 5.9 | 4.6 | 80 | 60 | 66 | 228 | 49 | 69.5 | 10.2 | 89.6 | 5.1 | 29.2 | 30.9 | | |
| LM | LT SP 52 | 35 | 104 | 34 | 6.0 | 4.7 | 90 | 70 | 92 | 336 | 61 | 71.3 | 10.0 | 89.3 | 4.5 | 27.0 | 32.3 | | |
| LM | LT SP 52 | 34 | 106 | 35 | 5.6 | 4.2 | 110 | 70 | 76 | 216 | 55 | 70.7 | 9.5 | 90.5 | 4.9 | 27.3 | 32.4 | | |
| LEACHVILLE | | | | | | | | | | | | | | | | | | | |
| VAIL 7 | | | | | | | | | | | | | | | | | | | |
| 100 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM | LT SP 42 | 35 | 102 | 33 | 6.0 | 4.4 | 110 | 70 | 132 | 410 | 52 | 73.0 | 9.8 | 90.2 | 4.5 | 24.1 | 34.7 | | |
| LM | LT SP 52 | 34 | 78 | 23 1/2 | 4.9 | 4.0 | 90 | 70 | 138 | 408 | 31 | 66.8 | 10.0 | 88.9 | 4.8 | 27.0 | 32.7 | | |
| LM | LT SP 52 | 34 | 78 | 26 | 4.2 | 3.5 | 100 | 60 | 116 | 410 | 37 | 69.0 | 9.2 | 88.7 | 5.3 | 27.6 | 32.6 | | |
| MARKED TREE | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | | |
| 90 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 93 | 30 | 5.5 | 4.4 | 90 | 60 | 106 | 414 | 42 | 76.7 | 9.6 | 89.3 | 4.8 | 26.5 | 33.0 | | |
| SGO | 61 | 35 | 88 | 27 | 5.7 | 4.4 | 80 | 60 | 124 | 440 | 43 | 67.2 | 8.7 | 90.2 | 4.5 | 27.7 | 32.3 | | |
| LM | 51 | 34 | 85 | 26 | 4.8 | 4.5 | 80 | 60 | 80 | 420 | 43 | 70.2 | 8.6 | 89.2 | 4.7 | 26.7 | 32.7 | | |
| PINE BLUFF | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 16 | | | | | | | | | | | | | | | | | | | |
| 75 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM | LT SP 42 | 35 | 97 | 32 | 5.7 | 4.9 | 100 | 60 | 66 | 330 | 47 | 72.3 | 9.7 | 91.4 | 4.8 | 27.1 | 33.0 | | |
| SLM | 41 | 35 | 100 | 31 | 5.7 | 4.5 | 110 | 70 | 60 | 168 | 45 | 77.3 | 9.8 | 92.6 | 4.3 | 25.7 | 33.9 | | |
| SLM | LT SP 42 | 34 | 89 | 27 | 5.3 | 3.7 | 90 | 70 | 36 | 460 | 37 | 71.3 | 9.1 | 90.6 | 5.0 | 27.3 | 32.6 | | |
| LOUISIANA | | | | | | | | | | | | | | | | | | | |
| LAKE PROVIDENCE | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | | | |
| 90 PERCENT | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 105 | 36 | 6.7 | 5.2 | 100 | 60 | 116 | 704 | 52 | 80.1 | 8.7 | 91.9 | 4.4 | 26.2 | 33.7 | | |
| SLM | 41 | 34 | 106 | 35 | 6.5 | 5.3 | 90 | 70 | 82 | 392 | 52 | 77.1 | 8.7 | 93.5 | 3.7 | 26.6 | 33.3 | | |
| SLM | 41 | 35 | 114 | 40 | 7.2 | 6.1 | 70 | 60 | 82 | 408 | 65 | 77.0 | 8.7 | 91.1 | 4.7 | 27.3 | 32.7 | | |
| SLM | LT SP 42 | 34 | 113 | 38 | 6.0 | 4.9 | 80 | 60 | 96 | 378 | 61 | 73.7 | 9.8 | 91.9 | 4.4 | 27.7 | 32.2 | | |

1/ END BREAKAGE TOO HIGH TO SPIN 50s YARN. 44s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD | |
|--------------------|------|---------------------|------|-------------|------|------------------|-------|-----------------|------|-----------------------|-------|--------------------|-----|---------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | NAIRE | | ZERO : 1/8" GAGE | | GATION | | VISIBLE : TOTAL WASTE | | : +b : CODE | | WASTE | |
| GRADE : STAPLE | | SPAN | | | | | | | | | | Rd | : | : | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | PCT. | NO. | | PCT. |
| LOUISIANA | | | | | | | | | | | | | | | |
| LAKE PROVIDENCE | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.06 | 44 | 46 | 94 | 22 | 1.5 | 2.1 | 79.3 | 8.6 | 21-2 | | | 5.9 |
| SLM | 41 | 35 | 1.09 | 43 | 46 | 95 | 24 | 1.7 | 2.8 | 77.4 | 7.4 | 21-2 | | | 6.9 |
| SLM | 41 | 34 | 1.09 | 42 | 48 | 96 | 23 | 1.3 | 2.2 | 80.0 | 9.2 | 21-2 | | | 7.5 |
| LM LT SP 52 | | 35 | 1.12 | 43 | 45 | 90 | 23 | 2.6 | 3.8 | 72.0 | 9.0 | 41-3 | | | 7.4 |
| OAK RIDGE | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.11 | 43 | 46 | 93 | 24 | 1.3 | 2.3 | 72.5 | 8.6 | 41-3 | | | 5.1 |
| SLM | 41 | 35 | 1.08 | 42 | 47 | 92 | 24 | 1.3 | 2.0 | 73.5 | 8.4 | 41-3 | | | 6.1 |
| SLM | 41 | 34 | 1.05 | 42 | 44 | 94 | 23 | 1.1 | 2.2 | 76.2 | 7.8 | 31-2 | | | 6.6 |
| SLM LT SP 42 | | 34 | 1.04 | 42 | 43 | 91 | 21 | 1.2 | 2.5 | 68.4 | 8.5 | 52-1 | | | 6.1 |
| SICILY ISLAND | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.08 | 44 | 49 | 97 | 22 | 3.0 | 3.8 | 73.5 | 8.6 | 41-3 | | | 8.2 |
| SLM | 41 | 35 | 1.06 | 44 | 52 | 98 | 24 | 2.6 | 3.2 | 75.0 | 8.4 | 31-4 | | | 8.8 |
| SLM | 41 | 34 | 1.05 | 44 | 49 | 88 | 22 | 2.2 | 2.9 | 77.0 | 8.5 | 31-2 | | | 8.1 |
| SLM | 41 | 34 | 1.07 | 42 | 50 | 91 | 22 | 2.4 | 3.2 | 72.0 | 8.5 | 41-4 | | | 6.8 |
| MISSISSIPPI | | | | | | | | | | | | | | | |
| ARCOLA | | | | | | | | | | | | | | | |
| DES 56 | | | | | | | | | | | | | | | |
| SM LT GR 26 | | 35 | 1.07 | 43 | 49 | 95 | 24 | 1.0 | 1.4 | 76.3 | 8.6 | 31-3 | | | 5.6 |
| M | 31 | 35 | 1.10 | 44 | 48 | 86 | 24 | 0.9 | 1.8 | 76.0 | 8.5 | 31-4 | | | 5.6 |
| SLM | 41 | 36 | 1.12 | 42 | 45 | 91 | 24 | 1.0 | 2.6 | 74.0 | 8.5 | 41-3 | | | 6.6 |
| DUNCAN | | | | | | | | | | | | | | | |
| DELTAPINE 41 | | | | | | | | | | | | | | | |
| LM+ | 50 | 35 | 1.11 | 44 | 44 | 99 | 24 | 3.7 | 4.7 | 74.5 | 8.8 | 31-4 | | | 7.1 |
| LM | 51 | 35 | 1.10 | 44 | 44 | 98 | 24 | 2.2 | 3.6 | 67.0 | 8.2 | 51-3 | | | 7.6 |
| LM LT SP 52 | | 35 | 1.11 | 44 | 47 | 96 | 23 | 4.0 | 2.9 | 68.0 | 9.0 | 52-1 | | | 7.6 |
| GREENVILLE | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | |
| M | 31 | 35 | 1.12 | 44 | 51 | 90 | 25 | 1.4 | 3.0 | 78.5 | 8.7 | 21-2 | | | 5.9 |
| M LT. GR 36 | | 34 | 1.07 | 42 | 44 | 88 | 23 | 4.4 | 2.2 | 72.1 | 9.3 | 41-3 | | | 7.0 |
| LM | 51 | 34 | 1.06 | 41 | 42 | 86 | 22 | 1.9 | 2.8 | 70.0 | 8.2 | 51-3 | | | 6.0 |

TABLE 6.--CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|--------------------|------|-----------------|------|------------|------|------------|-------|------|-----|-----|-----|----------------------------------|------|----------|------|-------|------|-------|--|--|--|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | 22s | 50s | 22s | 50s | 22s | 50s | 22s | 50s | 22s | 50s | NO. | Rd | +b | Rd | +b | Rd | -b | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | NO. | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | |
| LOUISIANA | | | | | | | | | | | | | | | | | | | | | |
| LAKE PROVIDENCE | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 91 | 30 | 5.5 | 4.7 | 90 | 60 | 108 | 320 | 40 | 78.3 | 9.1 | 90.9 | 4.4 | 26.8 | 32.7 | 32.9 | | | |
| SLM | 41 | 35 | 100 | 32 | 5.8 | 4.6 | 90 | 60 | 104 | 578 | 51 | 77.9 | 8.5 | 92.2 | 4.1 | 25.8 | 33.9 | 33.9 | | | |
| SLM | 41 | 34 | 94 | 31 | 5.7 | 4.5 | 80 | 60 | 84 | 426 | 46 | 78.4 | 12.8 | 91.5 | 4.4 | 26.7 | 32.8 | 32.8 | | | |
| LM LT SP 52 | 35 | | 104 | 35 | 5.8 | 4.5 | 70 | 60 | 196 | 486 | 58 | 73.3 | 9.7 | 91.5 | 4.4 | 27.5 | 32.9 | 32.9 | | | |
| OAK RIDGE | | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 98 | 33 | 6.0 | 4.7 | 100 | 60 | 54 | 296 | 53 | 74.2 | 8.7 | 89.9 | 3.7 | 26.1 | 33.2 | 33.2 | | | |
| SLM | 41 | 35 | 97 | 33 | 5.1 | 4.7 | 100 | 60 | 44 | 570 | 48 | 76.1 | 8.8 | 91.1 | 4.3 | 26.9 | 33.2 | 33.2 | | | |
| SLM | 41 | 34 | 85 | 28 | 5.6 | 5.4 | 90 | 70 | 38 | 268 | 37 | 75.4 | 8.5 | 91.6 | 4.9 | 28.6 | 32.0 | 32.0 | | | |
| SLM LT SP 42 | 34 | | 80 | 26 | 5.1 | 4.1 | 100 | 60 | 30 | 196 | 35 | 69.6 | 9.6 | 90.4 | 4.8 | 27.2 | 32.9 | 32.9 | | | |
| SICILY ISLAND | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 102 | 33 | 6.3 | 4.9 | 110 | 60 | 56 | 252 | 50 | 74.2 | 8.7 | 93.4 | 4.1 | 24.0 | 35.0 | 35.0 | | | |
| SLM | 41 | 35 | 96 | 33 | 5.9 | 5.1 | 110 | 80 | 48 | 174 | 45 | 76.6 | 9.2 | 88.1 | 5.9 | 25.7 | 33.6 | 33.6 | | | |
| SLM | 41 | 34 | 90 | 28 | 5.9 | 4.6 | 100 | 80 | 56 | 234 | 39 | 74.7 | 8.9 | 90.8 | 5.2 | 27.4 | 32.4 | 32.4 | | | |
| SLM | 41 | 34 | 98 | 32 | 5.7 | 4.5 | 110 | 70 | 42 | 254 | 52 | 74.3 | 9.2 | 91.2 | 4.5 | 25.9 | 33.2 | 33.2 | | | |
| MISSISSIPPI | | | | | | | | | | | | | | | | | | | | | |
| ARCOLA | | | | | | | | | | | | | | | | | | | | | |
| DES 56 | | | | | | | | | | | | | | | | | | | | | |
| SM LT GR 26 | 35 | | 102 | 32 | 6.1 | 4.8 | 120 | 70 | 34 | 162 | 51 | 73.7 | 9.3 | 91.1 | 4.8 | 26.9 | 33.2 | 33.2 | | | |
| M | 31 | | 111 | 38 | 6.2 | 4.7 | 100 | 80 | 28 | 148 | 55 | 87.1 | 9.2 | 90.9 | 4.8 | 25.5 | 33.7 | 33.7 | | | |
| SLM | 41 | 36 | 117 | 42 | 5.6 | 4.8 | 110 | 70 | 40 | 178 | 57 | 74.3 | 9.2 | 91.7 | 4.3 | 28.2 | 32.3 | 32.3 | | | |
| DUNCAN | | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 41 | | | | | | | | | | | | | | | | | | | | | |
| LM+ | 50 | 35 | 116 | 39 | 6.4 | 4.9 | 90 | 70 | 40 | 356 | 57 | 76.8 | 9.1 | 92.6 | 3.4 | 29.6 | 31.5 | 31.5 | | | |
| LM | 51 | 35 | 99 | 34 | 5.5 | 4.4 | 90 | 60 | 46 | 448 | 54 | 69.9 | 9.3 | 92.2 | 3.7 | 27.0 | 33.1 | 33.1 | | | |
| LM LT SP 52 | 35 | | 106 | 37 | 5.5 | 4.2 | 90 | 70 | 76 | 236 | 67 | 83.2 | 9.6 | 90.5 | 5.0 | 27.3 | 32.9 | 32.9 | | | |
| GREENVILLE | | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 116 | 37 | 7.1 | 5.3 | 100 | 70 | 32 | 262 | 57 | 78.4 | 9.1 | 93.9 | 3.8 | 26.5 | 33.3 | 33.3 | | | |
| M LT GR 36 | 34 | | 93 | 25 | 6.4 | 4.5 | 110 | 70 | 50 | 384 | 41 | 71.7 | 8.8 | 90.7 | 4.4 | 26.4 | 33.3 | 33.3 | | | |
| LM | 51 | 34 | 106 | 36 | 6.1 | 5.1 | 80 | 60 | 32 | 348 | 56 | 85.3 | 8.7 | 90.4 | 4.9 | 27.9 | 32.1 | 32.1 | | | |

1/ END BREAKAGE TOO HIGH TO SPIN 50s YARN. 36s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | RDG. | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD WASTE |
|-----------------------|--------|-------------------------------|-------|------|-----------------|-------|----------------------|-----------------------------|------|----------------------------------|-------|---------------------------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 SPAN : UNIF. | | | MICRO- NAIRE | | | ZERO : 1/8" GAGE | | VISIBLE : TOTAL WASTE : WASTE | | |
| GRADE | STAPLE | SPAN | UNIF. | | | | | | | | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. |
| MISSISSIPPI GREENWOOD | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | |
| LM | 51 | 35 | 1.08 | 42 | 93 | 22 | 4.9 | 2.5 | 3.6 | 70.2 | 8.6 | 41-4 |
| LM | 51 | 35 | 1.08 | 43 | 94 | 21 | 4.7 | 1.9 | 3.8 | 69.0 | 7.4 | 51-3 |
| LM | 51 | 35 | 1.07 | 42 | 87 | 22 | 5.6 | 3.1 | 4.7 | 70.0 | 8.2 | 51-3 |
| HOLLANDALE | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | |
| LM | 51 | 36 | 1.12 | 44 | 94 | 22 | 4.7 | 3.3 | 4.5 | 71.4 | 8.6 | 41-4 |
| LM | 51 | 35 | 1.09 | 42 | 93 | 23 | 4.8 | 2.7 | 3.7 | 72.3 | 8.4 | 41-3 |
| LM | 51 | 35 | 1.11 | 43 | 86 | 23 | 5.7 | 3.3 | 4.3 | 70.3 | 7.8 | 51-3 |
| LELAND | | | | | | | | | | | | |
| DELTAPINE 26 | | | | | | | | | | | | |
| LM | 51 | 34 | 1.07 | 43 | 94 | 24 | 5.8 | 1.6 | 3.0 | 69.3 | 8.4 | 51-3 |
| SLM | 41 | 35 | 1.08 | 43 | 94 | 25 | 4.9 | 1.8 | 2.8 | 73.1 | 8.4 | 41-3 |
| LYON | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | |
| LM | 51 | 36 | 1.10 | 45 | 91 | 22 | 4.7 | 4.9 | 6.1 | 72.8 | 8.3 | 41-3 |
| SGO | 61 | 35 | 1.11 | 41 | 96 | 22 | 4.6 | 4.1 | 5.3 | 65.3 | 8.3 | 51-4 |
| SGO | 61 | 35 | 1.10 | 43 | 89 | 23 | 5.1 | 4.5 | 5.5 | 65.2 | 7.7 | 51-4 |
| PANTHER BURN | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | |
| SLM | 41 | 36 | 1.10 | 46 | 91 | 22 | 5.5 | 2.8 | 3.7 | 76.5 | 8.6 | 31-3 |
| LM | 51 | 36 | 1.13 | 43 | 92 | 24 | 5.6 | 3.4 | 4.1 | 71.0 | 7.7 | 51-3 |
| LM | 51 | 36 | 1.13 | 42 | 89 | 23 | 5.5 | 2.7 | 3.7 | 75.0 | 8.3 | 41-3 |
| SARDIS | | | | | | | | | | | | |
| MCNAIR 235 | | | | | | | | | | | | |
| LM | 51 | 35 | 1.10 | 43 | 91 | 23 | 5.1 | 6.9 | 4.7 | 72.5 | 8.4 | 41-3 |
| LM | 51 | 35 | 1.07 | 44 | 91 | 23 | 5.9 | 2.8 | 4.2 | 70.2 | 8.2 | 41-4 |
| LM | 51 | 35 | 1.10 | 45 | 96 | 25 | 5.2 | 3.5 | 5.1 | 72.0 | 7.7 | 41-2 |

¹/₁ COTTON STUCK TO PROCESSING ROLLS.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | |
|-----------------------|------|----------|-----------------|------|------------|------|------------|-----|------|-----|-----|------|----------------------------------|------|----------|------|-------|----|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | | 22s | 50s | 22s | 50s | 22s | 50s | 22s | 50s | NO. | NO. | Rd | +b | Rd | +b | Rd | -b | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | |
| MISSISSIPPI GREENWOOD | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 35 | 91 | 27 | 5.6 | 4.3 | 100 | 70 | 156 | 576 | 41 | 69.3 | 8.6 | 85.4 | 6.7 | 27.7 | 32.3 | | | |
| LM | 51 | 35 | 89 | 27 | 5.4 | 3.8 | 90 | 70 | 122 | 468 | 41 | 85.1 | 8.3 | 90.5 | 4.6 | 26.9 | 32.7 | | | |
| LM | 51 | 35 | 88 | 28 | 4.9 | 3.7 | 80 | 60 | 86 | 468 | 41 | 84.7 | 8.6 | 90.2 | 5.4 | 26.9 | 32.8 | | | |
| HOLLANDALE | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 36 | 100 | 31 | 5.7 | 4.5 | 90 | 60 | 140 | 548 | 48 | 75.0 | 8.8 | 90.7 | 4.1 | 25.8 | 33.9 | | | |
| LM | 51 | 35 | 86 | 28 | 5.5 | 4.6 | 80 | 60 | 112 | 586 | 36 | 72.2 | 8.5 | 90.6 | 4.3 | 26.6 | 33.1 | | | |
| LM | 51 | 35 | 91 | 28 | 5.3 | 4.0 | 80 | 60 | 138 | 502 | 44 | 85.7 | 8.5 | 91.5 | 4.3 | 26.2 | 33.6 | | | |
| LELAND | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 26 | | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 34 | 100 | 32 | 6.0 | 4.6 | 120 | 70 | 28 | 224 | 51 | 71.5 | 8.9 | 89.9 | 4.4 | 27.3 | 32.7 | | | |
| SLM | 41 | 35 | 106 | 35 | 5.5 | 4.4 | 110 | 80 | 34 | 166 | 53 | 74.5 | 9.1 | 90.9 | 4.7 | 28.0 | 32.1 | | | |
| LYON | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 36 | 99 | 30 | 6.2 | 4.6 | 100 | 80 | 88 | 336 | 44 | 76.9 | 9.5 | 89.8 | 4.8 | 26.5 | 33.1 | | | |
| SGO | 61 | 35 | 92 | 28 | 5.9 | 4.0 | 110 | 60 | 114 | 514 | 43 | 68.6 | 8.9 | 89.8 | 4.6 | 27.3 | 32.6 | | | |
| SGO | 61 | 35 | 91 | 30 | 4.8 | 3.9 | 100 | 60 | 120 | 356 | 49 | 82.1 | 8.5 | 89.0 | 5.0 | 28.4 | 31.8 | | | |
| PANTHER BURN | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 36 | 106 | 35 | 6.2 | 4.7 | 110 | 70 | 42 | 402 | 51 | 78.1 | 9.0 | 88.2 | 6.1 | 25.8 | 33.9 | | | |
| LM | 51 | 36 | 109 | 37 | 6.5 | 5.4 | 80 | 60 | 78 | 514 | 60 | 75.1 | 8.3 | 90.6 | 4.6 | 28.0 | 32.4 | | | |
| LM | 51 | 36 | 108 | 38 | 6.8 | 5.5 | 90 | 60 | 86 | 410 | 61 | 85.7 | 8.7 | 91.3 | 5.0 | 27.1 | 32.6 | | | |
| SARDIS | | | | | | | | | | | | | | | | | | | | |
| MCNAIR 235 | | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 35 | 107 | 36 | 6.4 | 5.0 | 100 | 70 | 48 | 276 | 55 | 77.8 | 9.2 | 92.1 | 5.1 | 26.6 | 32.8 | | | |
| LM | 51 | 35 | 97 | 28 | 6.1 | 4.5 | 110 | 60 | 70 | 330 | 46 | 71.8 | 9.5 | 90.7 | 4.9 | 27.4 | 32.9 | | | |
| LM | 51 | 35 | 118 | 39 | 6.5 | 5.4 | 110 | 80 | 52 | 150 | 66 | 86.8 | 8.8 | 90.5 | 5.5 | 27.6 | 32.7 | | | |

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | FIBER STRENGTH | | MICRO-NAIRE | | RDG. | | MPSI | | G/TEX | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | |
|--------------------|------|---------------------|------|------------------|------|--------------|-------|------|------|------|------|-------|------|-----------------------|------|------------------|------|--------------------|------|---------------------|--|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | ZERO : 1/8" GAGE | | SPAN : UNIF. | | PCT. | | IN. | | PCT. | | VISIBLE : TOTAL WASTE | | NONLINT | | : +b : CODE | | PCT. UNITS NO. | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | PCT. | PCT. | PCT. | PCT. | PCT. | PCT. | PCT. | PCT. | PCT. | |
| MISSISSIPPI | | | | | | | | | | | | | | | | | | | | | |
| SILVER CITY | | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 36 | 1.11 | 45 | 49 | 91 | 22 | 5.1 | 1.7 | 2.8 | 77.5 | 8.2 | 31-1 | 7.0 | | | | | | | |
| SLM | 41 | 35 | 1.08 | 44 | 47 | 90 | 24 | 6.0 | 1.6 | 2.8 | 75.2 | 8.8 | 31-4 | 7.2 | | | | | | | |
| SLM | 41 | 35 | 1.09 | 43 | 47 | 92 | 23 | 5.5 | 1.9 | 2.7 | 73.0 | 7.6 | 41-4 | 6.3 | | | | | | | |
| WATER VALLEY | | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.10 | 43 | 47 | 91 | 22 | 5.9 | 1.8 | 2.9 | 75.3 | 9.0 | 31-3 | 6.7 | | | | | | | |
| SLM LT SP | 42 | 34 | 1.10 | 43 | 47 | 89 | 23 | 5.8 | 1.6 | 2.4 | 68.2 | 9.0 | 42-2 | 7.1 | | | | | | | |
| LM | 51 | 35 | 1.06 | 41 | 46 | 89 | 22 | 4.9 | 2.8 | 4.3 | 72.0 | 8.2 | 41-4 | 7.9 | | | | | | | |
| MISSOURI | | | | | | | | | | | | | | | | | | | | | |
| BERNIE | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 1.10 | 44 | 48 | 96 | 25 | 6.3 | 2.2 | 3.9 | 75.5 | 9.6 | 31-3 | 6.7 | | | | | | | |
| SLM LT SP | 42 | 36 | 1.12 | 45 | 48 | 90 | 25 | 6.0 | 2.0 | 3.0 | 70.5 | 9.6 | 42-1 | 6.4 | | | | | | | |
| SLM | 41 | 35 | 1.06 | 43 | 46 | 92 | 22 | 5.7 | 2.0 | 3.3 | 76.0 | 9.2 | 31-3 | 7.7 | | | | | | | |
| STEELE | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.09 | 43 | 52 | 97 | 23 | 5.3 | 2.1 | 3.2 | 72.7 | 9.3 | 41-3 | 5.6 | | | | | | | |
| SLM | 41 | 35 | 1.09 | 43 | 52 | 96 | 23 | 5.0 | 1.5 | 2.5 | 73.3 | 8.8 | 41-3 | 6.9 | | | | | | | |
| SLM | 41 | 35 | 1.07 | 42 | 47 | 93 | 22 | 5.2 | 1.5 | 2.5 | 78.3 | 7.9 | 31-1 | 6.9 | | | | | | | |
| TENNESSEE | | | | | | | | | | | | | | | | | | | | | |
| MILLINGTON | | | | | | | | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | | | | | | | | |
| LM LT SP | 52 | 34 | 1.06 | 41 | 44 | 86 | 21 | 5.4 | 1.2 | 2.5 | 69.3 | 10.2 | 42-2 | 8.9 | | | | | | | |
| LM | 51 | 34 | 1.06 | 42 | 45 | 98 | 23 | 4.8 | 2.6 | 3.5 | 72.0 | 8.1 | 41-4 | 7.3 | | | | | | | |
| LM | 51 | 34 | 1.06 | 43 | 48 | 94 | 24 | 5.1 | 2.8 | 3.5 | 67.3 | 9.4 | 52-1 | 8.0 | | | | | | | |
| TRENTON | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.06 | 45 | 49 | 91 | 21 | 6.1 | 2.0 | 2.9 | 76.2 | 9.4 | 31-3 | 6.3 | | | | | | | |
| SLM LT SP | 42 | 34 | 1.04 | 44 | 51 | 88 | 22 | 5.4 | 1.5 | 2.1 | 69.0 | 9.4 | 52-1 | 7.2 | | | | | | | |
| SLM LT SP | 42 | 34 | 1.03 | 43 | 51 | 91 | 22 | 5.4 | 2.0 | 2.6 | 76.3 | 9.2 | 31-3 | 6.6 | | | | | | | |

COTTON STUCK TO PROCESSING ROLLS.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|--------------------|------|-----------------|-----------|------------|-----------|------------|-----------|-----------|-----------|-----|------|----------------------------------|------|----------|------|-------|------|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | |
| GRADE : STAPLE | | 22s : 50s | 50s : 22s | 22s : 50s | 50s : 22s | 22s : 50s | 50s : 22s | 22s : 50s | 50s : 22s | NO. | NO. | Rd | +b | Rd | +b | Rd | +b |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | |
| MISSISSIPPI | | | | | | | | | | | | | | | | | |
| SILVER CITY | | | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | | | |
| SLM | 41 | 36 | 99 | 31 | 6.0 | 5.0 | 90 | 70 | 84 | 358 | 46 | 78.4 | 9.7 | 92.1 | 5.2 | 26.7 | 32.8 |
| SLM | 41 | 35 | 95 | 30 | 6.2 | 4.8 | 100 | 70 | 36 | 378 | 44 | 74.2 | 9.1 | 94.2 | 3.4 | 24.8 | 34.4 |
| SLM | 41 | 35 | 100 | 33 | 5.3 | 4.2 | 90 | 60 | 46 | 184 | 53 | 86.7 | 8.6 | 92.5 | 4.4 | 26.7 | 33.0 |
| WATER VALLEY | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 102 | 33 | 6.3 | 5.3 | 90 | 70 | 56 | 348 | 45 | 79.8 | 8.7 | 91.3 | 3.6 | 26.2 | 33.4 |
| SLM LT SP | 42 | 34 | 87 | 29 | 5.7 | 5.1 | 100 | 60 | 48 | 200 | 40 | 70.9 | 9.7 | 90.6 | 5.1 | 27.5 | 32.5 |
| LM | 51 | 35 | 90 | 29 | 5.5 | 4.6 | 90 | 70 | 58 | 392 | 42 | 84.6 | 8.8 | 91.6 | 4.6 | 27.8 | 32.5 |
| MISSOURI | | | | | | | | | | | | | | | | | |
| BERNIE | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 116 | 38 | 6.7 | 5.3 | 110 | 90 | 66 | 234 | 59 | 77.4 | 10.2 | 88.6 | 6.0 | 26.0 | 33.4 |
| SLM LT SP | 42 | 36 | 108 | 37 | 6.1 | 4.9 | 100 | 70 | 82 | 118 | 58 | 73.1 | 9.9 | 91.1 | 4.9 | 27.7 | 32.3 |
| SLM | 41 | 35 | 90 | 26 | 6.0 | 4.3 | 100 | 70 | 46 | 396 | 43 | 74.6 | 9.6 | 91.7 | 4.6 | 27.2 | 32.8 |
| STEELE | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 104 | 33 | 6.1 | 4.5 | 110 | 80 | 66 | 344 | 51 | 75.6 | 9.4 | 91.4 | 3.8 | 25.7 | 33.7 |
| SLM | 41 | 35 | 91 | 29 | 5.6 | 4.6 | 90 | 60 | 94 | 450 | 40 | 74.5 | 9.4 | 85.0 | 6.8 | 24.6 | 34.7 |
| SLM | 41 | 35 | 96 | 30 | 5.6 | 4.5 | 100 | 70 | 56 | 272 | 48 | 75.8 | 9.0 | 89.5 | 5.5 | 27.4 | 32.6 |
| TENNESSEE | | | | | | | | | | | | | | | | | |
| MILLINGTON | | | | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | | | | |
| LM LT SP | 52 | 34 | 82 | 26 | 5.6 | 4.5 | 110 | 70 | 66 | 306 | 35 | 67.9 | 9.7 | 90.6 | 4.5 | 27.7 | 32.0 |
| LM | 51 | 34 | 108 | 36 | 5.5 | 4.4 | 110 | 70 | 44 | 174 | 52 | 85.8 | 9.1 | 89.4 | 5.4 | 26.4 | 33.2 |
| LM | 51 | 34 | 100 | 31 | 5.1 | 3.7 | 100 | 70 | 84 | 306 | 45 | 71.6 | 9.4 | 91.4 | 4.8 | 27.0 | 32.9 |
| TRENTON | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 99 | 30 | 6.6 | 4.7 | 110 | 70 | 58 | 220 | 43 | 77.9 | 9.9 | 92.3 | 5.3 | 25.7 | 33.6 |
| SLM LT SP | 42 | 34 | 86 | 28 | 5.5 | 4.6 | 90 | 60 | 58 | 170 | 37 | 70.6 | 9.9 | 89.9 | 5.5 | 27.8 | 31.9 |
| SLM LT SP | 42 | 34 | 85 | 26 | 5.3 | 3.9 | 90 | 70 | 62 | 246 | 39 | 85.0 | 9.7 | 91.3 | 5.1 | 26.8 | 33.1 |

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD | |
|--------------------|------|---------------------|------|-------------|------|------------------|-------|-----------------|------|------------------|------|--------------------|-------|----------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | NAIRE | | ZERO : 1/8" GAGE | | 1/8" ELONGATION | | NONLINT | | : +b : : | | : COLOR : CODE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. |
| TENNESSEE TRIMBLE | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.06 | 44 | 50 | 93 | 21 | 4.9 | 1.6 | 2.9 | 73.7 | 9.3 | 31-4 | 7.0 | |
| SLM LT SP | 42 | 34 | 1.05 | 43 | 48 | 90 | 21 | 5.4 | 1.5 | 2.2 | 74.4 | 8.3 | 31-4 | 7.5 | |
| SLM LT SP | 42 | 34 | 1.06 | 43 | 44 | 91 | 21 | 4.7 | 2.8 | 4.3 | 71.0 | 8.5 | 41-3 | 7.8 | |
| SOUTH TEXAS BISHOP | | | | | | | | | | | | | | | |
| TAMCOT CAMD E | | | | | | | | | | | | | | | |
| M | 31 | 29 | 0.92 | 44 | 33 | 84 | 19 | 5.5 | 1.1 | 2.3 | 78.0 | 10.8 | 12-1 | 7.4 | |
| M | 31 | 30 | 0.95 | 44 | 36 | 85 | 20 | 5.6 | 1.4 | 2.5 | 76.5 | 9.7 | 21-4 | 6.2 | |
| M LT SP | 32 | 30 | 0.96 | 45 | 35 | 89 | 19 | 5.8 | 1.3 | 2.5 | 76.0 | 10.0 | 21-4 | 7.9 | |
| BISHOP | | | | | | | | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | | | | | | | | |
| M | 31 | 29 | 0.97 | 45 | 32 | 80 | 22 | 6.2 | 2.6 | 3.5 | 78.8 | 10.5 | 11-4 | 7.1 | |
| M LT SP | 32 | 31 | 0.98 | 43 | 40 | 77 | 22 | 5.2 | 2.5 | 3.1 | 74.3 | 9.7 | 32-1 | 7.2 | |
| SLM SP | 43 | 31 | 0.99 | 43 | 35 | 88 | 20 | 6.2 | 3.1 | 4.4 | 68.0 | 10.6 | 43-1 | 7.8 | |
| BROWNSVILLE | | | | | | | | | | | | | | | |
| GP 3774 | | | | | | | | | | | | | | | |
| SLM | 41 | 33 | 1.06 | 48 | 41 | 79 | 23 | 6.2 | 2.9 | 4.0 | 76.5 | 9.0 | 31-3 | 7.2 | |
| SLM | 41 | 33 | 1.03 | 46 | 41 | 83 | 22 | 6.7 | 2.6 | 3.7 | 77.2 | 8.8 | 31-3 | 6.2 | |
| SLM | 41 | 33 | 1.04 | 45 | 42 | 71 | 22 | 6.3 | 2.0 | 2.7 | 76.8 | 8.6 | 31-1 | 6.3 | |
| DRISCOLL | | | | | | | | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | | | | | | | | |
| SLM | 41 | 29 | 0.96 | 43 | 33 | 83 | 21 | 5.5 | 1.7 | 2.3 | 75.5 | 10.5 | 22-2 | 7.5 | |
| M | 31 | 31 | 0.98 | 43 | 33 | 82 | 21 | 6.0 | 2.0 | 3.3 | 76.5 | 9.8 | 21-3 | 7.3 | |
| SLM LT SP | 42 | 31 | 0.99 | 44 | 32 | 83 | 20 | 6.3 | 2.0 | 3.5 | 74.5 | 10.0 | 32-1 | 7.7 | |

16 COTTON STUCK TO PROCESSING ROLLS.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|--------------------|------|----------|-----------------|--------------------------------|------------|------|------------|-----|-----------|-----|--------------------------------|------|----------------------------------|------|----------|------|---------|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | |
| GRADE : STAPLE | | | 22s : 50s | | 22s : 50s | | 22s : 50s | | 22s : 50s | | NO. | | Rd : +b | | Rd : +b | | Rd : -b | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | |
| TENNESSEE | | | | | | | | | | | | | | | | | | |
| TRIMBLE | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 88 | 30 | 5.3 | 4.1 | 100 | 70 | 30 | 244 | 43 | 74.3 | 9.6 | 91.2 | 5.1 | 26.1 | 33.0 | |
| SLM LT SP | 42 | 34 | 86 | 27 | 5.1 | 4.4 | 90 | 70 | 38 | 384 | 35 | 73.0 | 9.7 | 92.1 | 4.5 | 25.7 | 33.6 | |
| SLM LT SP | 42 | 34 | 85 | 27 | 4.8 | 4.0 | 90 | 60 | 34 | 348 | 42 | 72.1 | 9.2 | 90.6 | 4.7 | 26.9 | 32.8 | |
| SOUTH TEXAS | | | | | | | | | | | | | | | | | | |
| BISHOP | | | | | | | | | | | | | | | | | | |
| TAMCOT CAMD E | | | | | | | | | | | | | | | | | | |
| M | 31 | 29 | 74 | 20 ¹ / _J | 5.3 | 4.6 | 90 | 70 | 36 | 166 | 25 ² / _J | 79.0 | 10.6 | 90.3 | 4.1 | 27.8 | 32.4 | |
| M | 31 | 30 | 83 | 24 ¹ / _J | 5.8 | 5.0 | 90 | 60 | 34 | 236 | 36 | 78.8 | 10.0 | 90.1 | 4.3 | 27.9 | 32.6 | |
| M LT SP | 32 | 30 | 89 | 28 | 5.9 | 4.7 | 90 | 60 | 24 | 142 | 41 | 76.7 | 10.4 | 90.4 | 4.9 | 28.7 | 32.1 | |
| BISHOP | | | | | | | | | | | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | | | | | | | | | | | |
| M | 31 | 29 | 93 | 29 | 5.7 | 4.7 | 90 | 80 | 26 | 264 | 43 | 79.3 | 10.3 | 91.6 | 4.6 | 28.9 | 31.4 | |
| M LT SP | 32 | 31 | 99 | 31 | 6.0 | 3.9 | 100 | 70 | 46 | 244 | 46 | 76.7 | 10.1 | 90.5 | 4.7 | 27.3 | 32.5 | |
| SLM SP | 43 | 31 | 89 | 27 | 6.2 | 4.3 | 110 | 60 | 48 | 336 | 43 | 71.6 | 11.3 | 90.3 | 5.8 | 28.8 | 31.5 | |
| BROWNSVILLE | | | | | | | | | | | | | | | | | | |
| GP 3774 | | | | | | | | | | | | | | | | | | |
| 80 PERCENT | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 33 | 105 | 37 | 6.5 | 5.5 | 90 | 80 | 64 | 180 | 55 | 80.5 | 9.1 | 92.0 | 4.0 | 28.2 | 32.2 | |
| SLM | 41 | 33 | 105 | 35 | 6.5 | 5.0 | 110 | 80 | 46 | 158 | 57 | 79.9 | 9.0 | 92.6 | 3.8 | 27.5 | 32.6 | |
| SLM | 41 | 33 | 104 | 34 | 6.5 | 5.0 | 100 | 70 | 84 | 316 | 57 | 80.2 | 8.7 | 91.8 | 4.2 | 27.1 | 33.2 | |
| DRISCOLL | | | | | | | | | | | | | | | | | | |
| TAMCOT SP-37 | | | | | | | | | | | | | | | | | | |
| 99 PERCENT | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 29 | 78 | 23 ¹ / _J | 5.1 | 4.8 | 80 | 70 | 102 | 204 | 25 ² / _J | 77.1 | 10.5 | 91.8 | 4.3 | 28.8 | 31.9 | |
| M | 31 | 31 | 79 | 22 ¹ / _J | 5.3 | 4.4 | 70 | 60 | 36 | 122 | 25 ² / _J | 79.9 | 10.1 | 92.7 | 4.3 | 28.2 | 32.8 | |
| SLM LT SP | 42 | 31 | 82 | 24 ³ / _J | 6.0 | 4.9 | 80 | 60 | 38 | 240 | 25 ² / _J | 76.8 | 10.8 | 91.7 | 4.9 | 29.4 | 31.5 | |

¹END BREAKAGE TOO HIGH TO SPIN 50s YARN. 36s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.

²THIS IS AN ESTIMATED VALUE BELOW THE RANGE OF THE TEST.

³END BREAKAGE TOO HIGH TO SPIN 50s YARN. 44s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD | |
|------------------------|------|---------------------|------|--------------|------|------------------|-------|-----------------|------|-----------------------|------|--------------------|------|---------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | SPAN : UNIF. | | ZERO : 1/8" GAGE | | GATION | | VISIBLE : TOTAL WASTE | | Rd : +b | | COLOR CODE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. |
| SOUTH TEXAS KINGSVILLE | | | | | | | | | | | | | | | |
| TAMCOT SP-37H | | | | | | | | | | | | | | | |
| SLM | 41 | 30 | 0.97 | 46 | 32 | 83 | 21 | 6.0 | 2.1 | 3.2 | 76.5 | 9.5 | 21-4 | 7.0 | |
| LM | 51 | 31 | 0.97 | 44 | 30 | 90 | 22 | 5.5 | 2.7 | 3.4 | 73.7 | 9.3 | 31-4 | 7.8 | |
| LM SP | 53 | 30 | 0.96 | 44 | 33 | 88 | 21 | 5.5 | 3.7 | 4.5 | 64.5 | 10.7 | 43-2 | 8.2 | |
| LM SP | 53 | 30 | 0.98 | 47 | 37 | 82 | 20 | 5.9 | 3.1 | 3.8 | 64.0 | 11.1 | 43-4 | 8.6 | |
| MERCEDES | | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | | |
| M | 31 | 33 | 1.06 | 46 | 44 | 88 | 24 | 5.4 | 2.0 | 3.2 | 77.5 | 9.5 | 21-3 | 5.8 | |
| SLM | 41 | 33 | 1.04 | 46 | 46 | 88 | 23 | 5.2 | 1.7 | 2.4 | 75.7 | 9.6 | 31-3 | 6.2 | |
| SLM | 41 | 33 | 1.05 | 46 | 46 | 97 | 26 | 5.0 | 2.0 | 2.5 | 74.3 | 9.3 | 31-4 | 6.7 | |
| MISSION | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | |
| M | 31 | 34 | 1.05 | 45 | 48 | 92 | 24 | 5.2 | 1.0 | 1.3 | 78.7 | 9.7 | 11-4 | 6.2 | |
| M | 31 | 33 | 1.08 | 46 | 48 | 85 | 24 | 5.5 | 0.9 | 1.9 | 77.3 | 9.6 | 21-4 | 6.4 | |
| M | 31 | 33 | 1.07 | 45 | 47 | 88 | 24 | 5.6 | 1.0 | 2.0 | 78.0 | 9.7 | 21-3 | 6.2 | |
| RAYMONDVILLE | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | |
| SLM | 41 | 33 | 1.02 | 46 | 35 | 85 | 23 | 5.7 | 1.8 | 3.0 | 77.0 | 10.0 | 21-3 | 7.0 | |
| SLM | 41 | 33 | 1.01 | 45 | 38 | 79 | 22 | 6.2 | 3.0 | 4.2 | 75.3 | 9.1 | 31-3 | 6.9 | |
| SLM | 41 | 33 | 1.03 | 45 | 39 | 87 | 24 | 5.8 | 1.7 | 2.5 | 76.0 | 9.5 | 21-4 | 7.0 | |
| ROBSTOWN | | | | | | | | | | | | | | | |
| GP 3774 | | | | | | | | | | | | | | | |
| SLM | 41 | 31 | 0.99 | 45 | 32 | 82 | 23 | 6.3 | 3.4 | 4.5 | 78.5 | 9.6 | 21-3 | 8.5 | |
| SLM | 41 | 32 | 0.99 | 44 | 36 | 79 | 23 | 5.8 | 3.1 | 4.2 | 76.0 | 9.4 | 31-3 | 8.3 | |
| LM SP | 53 | 31 | 1.01 | 46 | 36 | 84 | 20 | 6.1 | 3.9 | 5.0 | 65.0 | 11.0 | 43-4 | 9.3 | |
| SAN BENITO | | | | | | | | | | | | | | | |
| STONEVILLE 256 | | | | | | | | | | | | | | | |
| M | 31 | 33 | 1.04 | 45 | 52 | 96 | 22 | 4.4 | 2.1 | 2.7 | 78.2 | 9.1 | 21-3 | 7.6 | |
| M | 31 | 33 | 1.04 | 44 | 49 | 93 | 21 | 4.6 | 1.7 | 2.6 | 79.2 | 8.8 | 21-1 | 7.0 | |
| SLM | 41 | 33 | 1.05 | 45 | 48 | 94 | 22 | 4.6 | 2.0 | 3.0 | 77.5 | 8.7 | 31-1 | 7.5 | |

TABLE 6.---CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|--------------------|------|-----------------|------|------------|------|------------|-------|-----------|-----|-----|-----|----------------------------------|-------|----------|-------|---------|-------|------|-------|------|-------|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | 22s : 50s | | 22s : 50s | | 22s : 50s | | 22s : 50s | | NO. | | Rd : +b | | Rd : +b | | Rd : -b | | | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS |
| SOUTH TEXAS | | | | | | | | | | | | | | | | | | | | | |
| KINGSVILLE | | | | | | | | | | | | | | | | | | | | | |
| TAMCOT SP-37H | | | | | | | | | | | | | | | | | | | | | |
| 95 PERCENT | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 30 | 99 | 30 | 5.8 | 4.7 | 90 | 70 | 42 | 192 | 48 | 78.2 | 9.9 | 92.2 | 4.4 | 29.3 | 31.8 | | | | |
| LM | 51 | 31 | 97 | 30 | 6.0 | 4.8 | 80 | 60 | 62 | 376 | 46 | 76.3 | 9.9 | 91.3 | 5.2 | 28.0 | 32.4 | | | | |
| LM SP | 53 | 30 | 90 | 27 | 5.8 | 4.4 | 90 | 60 | 40 | 232 | 42 | 69.6 | 11.7 | 90.8 | 5.9 | 28.9 | 30.6 | | | | |
| LM SP | 53 | 30 | 89 | 29 | 5.9 | 4.6 | 100 | 60 | 42 | 174 | 39 | 67.1 | 12.2 | 91.1 | 7.4 | 28.9 | 30.6 | | | | |
| MERCEDES | | | | | | | | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | | | | | | | | |
| 80 PERCENT | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 33 | 109 | 36 | 6.0 | 5.0 | 90 | 70 | 60 | 246 | 49 | 78.5 | 9.6 | 91.4 | 4.4 | 27.4 | 32.3 | | | | |
| SLM | 41 | 33 | 116 | 40 | 5.7 | 4.6 | 100 | 70 | 68 | 430 | 59 | 77.8 | 9.9 | 90.5 | 5.1 | 26.3 | 33.1 | | | | |
| SLM | 41 | 33 | 108 | 37 | 5.7 | 4.7 | 120 | 80 | 50 | 138 | 53 | 77.6 | 9.5 | 89.7 | 4.6 | 26.3 | 33.6 | | | | |
| MISSION | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | | | | | | | |
| 70 PERCENT | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 34 | 107 | 34 | 6.3 | 4.6 | 120 | 80 | 36 | 206 | 55 | 79.7 | 10.0 | 95.1 | 4.5 | 26.6 | 32.7 | | | | |
| M | 31 | 33 | 110 | 37 | 6.4 | 4.7 | 100 | 70 | 52 | 164 | 59 | 78.9 | 10.0 | 94.7 | 4.7 | 26.7 | 33.0 | | | | |
| M | 31 | 33 | 110 | 38 | 6.1 | 4.8 | 110 | 70 | 40 | 190 | 56 | 79.0 | 10.0 | 91.7 | 4.8 | 26.5 | 32.8 | | | | |
| RAYMONDVILLE | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | | | | | |
| 97 PERCENT | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 33 | 103 | 31 | 6.0 | 5.2 | 90 | 70 | 54 | 204 | 46 | 77.6 | 10.2 | 88.3 | 5.4 | 30.4 | 30.4 | | | | |
| SLM | 41 | 33 | 103 | 32 | 6.2 | 4.6 | 100 | 60 | 66 | 208 | 51 | 77.3 | 9.0 | 91.4 | 4.2 | 26.8 | 33.3 | | | | |
| SLM | 41 | 33 | 100 | 31 | 6.0 | 4.4 | 100 | 80 | 48 | 100 | 51 | 76.9 | 9.7 | 94.6 | 4.4 | 27.9 | 32.5 | | | | |
| ROBSTOWN | | | | | | | | | | | | | | | | | | | | | |
| GP 3774 | | | | | | | | | | | | | | | | | | | | | |
| 90 PERCENT | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 31 | 93 | 30 | 6.2 | 4.8 | 70 | 60 | 48 | 308 | 44 | 80.5 | 9.7 | 90.9 | 4.5 | 29.0 | 31.4 | | | | |
| SLM | 41 | 32 | 93 | 30 | 6.4 | 5.0 | 80 | 60 | 60 | 236 | 41 | 77.6 | 9.8 | 91.2 | 5.1 | 28.9 | 32.0 | | | | |
| LM SP | 53 | 31 | 91 | 28 | 6.3 | 4.6 | 100 | 60 | 92 | 414 | 43 | 66.9 | 11.6 | 88.3 | 6.7 | 29.3 | 30.4 | | | | |
| SAN BENITO | | | | | | | | | | | | | | | | | | | | | |
| STONEVILLE 256 | | | | | | | | | | | | | | | | | | | | | |
| 70 PERCENT | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 33 | 90 | 28 | 5.0 | 3.9 | 100 | 70 | 46 | 116 | 40 | 80.2 | 9.3 | 92.8 | 5.1 | 27.0 | 32.5 | | | | |
| M | 31 | 33 | 95 | 29 | 5.4 | 4.0 | 90 | 70 | 38 | 106 | 41 | 80.9 | 8.9 | 94.0 | 4.3 | 28.4 | 32.0 | | | | |
| SLM | 41 | 33 | 96 | 31 | 5.5 | 4.3 | 80 | 70 | 38 | 156 | 47 | 79.6 | 8.8 | 94.0 | 4.2 | 26.9 | 32.9 | | | | |

TABLE 6. --- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | |
|--------------------|-------|---------------------|------|--------------|------|--------------------------|-------|-----------------|------|------------------------------|-------|--------------------|------|---------------------|--|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | SPAN : UNIF. | | ZERO : 1/8" GAGE : G/TEX | | 1/8" ELONGATION | | VISIBLE : TOTAL WASTE : PCT. | | : +b : PCT. | | : COLOR : CODE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. | |
| SOUTH TEXAS | | | | | | | | | | | | | | | |
| SANTA ROSA | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.05 | 46 | 46 | 86 | 24 | 5.9 | 1.5 | 2.0 | 75.5 | 9.4 | 31-3 | 6.9 | |
| SLM | 41 | 33 | 1.05 | 45 | 48 | 84 | 22 | 5.8 | 1.3 | 2.0 | 76.5 | 9.0 | 31-3 | 6.7 | |
| M | 31 | 34 | 1.04 | 47 | 50 | 88 | 24 | 5.8 | 1.5 | 2.1 | 78.2 | 9.3 | 21-3 | 6.6 | |
| CENTRAL TEXAS | | | | | | | | | | | | | | | |
| BATESVILLE | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | |
| M | 31 | 34 | 1.04 | 45 | 40 | 88 | 24 | 5.7 | 1.4 | 1.9 | 77.8 | 9.3 | 21-3 | 6.8 | |
| SLM | 41 | 34 | 1.08 | 46 | 50 | 86 | 24 | 6.3 | 2.3 | 3.1 | 75.7 | 9.2 | 31-3 | 7.2 | |
| SLM | 41 | 34 | 1.09 | 44 | 46 | 85 | 22 | 6.0 | 2.1 | 2.9 | 75.8 | 9.2 | 31-3 | 6.5 | |
| NAVASOTA | | | | | | | | | | | | | | | |
| DELTAPINE 16 | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.07 | 45 | 47 | 91 | 21 | 5.4 | 1.9 | 2.5 | 76.5 | 9.4 | 21-4 | 6.1 | |
| SLM | 41 | 35 | 1.11 | 44 | 45 | 92 | 23 | 6.1 | 1.3 | 2.0 | 74.8 | 8.4 | 31-4 | 5.4 | |
| SLM | 41 | 35 | 1.11 | 44 | 50 | 86 | 22 | 6.6 | 1.4 | 2.3 | 75.0 | 8.4 | 41-3 | 5.5 | |
| NORTHWEST TEXAS | | | | | | | | | | | | | | | |
| ANTON | | | | | | | | | | | | | | | |
| PAYMASTER 266 | | | | | | | | | | | | | | | |
| 88 PERCENT | | | | | | | | | | | | | | | |
| LM | 51 | 32 | 1.02 | 45 | 41 | 86 | 24 | 7.1 | 3.8 | 5.6 | 76.0 | 8.3 | 31-4 | 8.7 | |
| SLM | 41 | 33 | 1.01 | 46 | 40 | 87 | 24 | 6.7 | 3.3 | 5.0 | 75.0 | 9.0 | 31-4 | 8.7 | |
| LM | 51 | 33 | 1.04 | 43 | 35 | 82 | 23 | 7.3 | 4.7 | 6.9 | 76.0 | 8.6 | 31-3 | 8.7 | |
| LM LT SP | 52 2/ | 32 | 1.02 | 42 | 41 | 85 | 24 | 6.6 | 4.5 | 5.9 | 74.0 | 9.0 | 31-4 | 8.5 | |
| LORENZO | | | | | | | | | | | | | | | |
| PAYMASTER 303 | | | | | | | | | | | | | | | |
| 75 PERCENT | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 1.01 | 42 | 34 | 88 | 22 | 6.1 | 3.4 | 4.9 | 76.1 | 8.3 | 31-4 | 7.2 | |
| SLM | 41 | 31 | 0.98 | 43 | 38 | 86 | 22 | 6.9 | 2.1 | 4.1 | 75.4 | 9.2 | 31-3 | 7.8 | |
| SLM LT SP | 42 | 30 | 0.94 | 45 | 41 | 88 | 21 | 6.9 | 2.2 | 3.7 | 74.8 | 9.4 | 31-3 | 8.5 | |
| LM LT SP | 52 2/ | 32 | 1.01 | 44 | 40 | 87 | 23 | 6.5 | 3.4 | 4.3 | 73.5 | 9.2 | 31-4 | 8.0 | |

^{1/}COTTON STUCK TO PROCESSING ROLLS.^{2/}REDUCED FROM 42 BECAUSE OF BARK.

TABLE 6. --CONTINUED

| PRODUCTION AREA AND CLASSIFICATION | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|---------------------------------------|------|-----------------|------|------------|------|------------|-------|------|-----|------|-------|----------------------------------|-------|------|-------|------|--|
| | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | GRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | 22s | 50s | 22s | 50s | 22s | 50s | 22s | 50s | 22s | 50s | SPY | RD | | RD | | |
| NAME | CODE | 32ND IN. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | |
| SOUTH TEXAS | | | | | | | | | | | | | | | | | |
| SANTA ROSA | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 112 | 38 | 6.5 | 5.1 | 110 | 80 | 76 | 234 | 56 | 78.9 | 9.4 | 91.8 | 4.5 | 28.3 | |
| SLM | 41 | 33 | 108 | 36 | 6.3 | 5.0 | 120 | 90 | 72 | 192 | 52 | 79.5 | 9.2 | 91.2 | 4.9 | 25.5 | |
| M | 31 | 34 | 106 | 36 | 5.9 | 4.7 | 110 | 90 | 40 | 96 | 52 | 79.7 | 9.4 | 94.3 | 5.0 | 27.3 | |
| CENTRAL TEXAS | | | | | | | | | | | | | | | | | |
| BATESVILLE | | | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | | | |
| M | 31 | 34 | 102 | 34 | 6.0 | 4.8 | 100 | 60 | 46 | 196 | 52 | 79.3 | 9.6 | 94.2 | 4.6 | 27.0 | |
| SLM | 41 | 34 | 103 | 34 | 5.9 | 4.5 | 110 | 60 | 146 | 410 | 49 | 77.7 | 9.6 | 91.6 | 4.5 | 27.2 | |
| SLM | 41 | 34 | 104 | 32 | 6.6 | 4.8 | 90 | 70 | 78 | 380 | 46 | 78.7 | 9.5 | 88.2 | 6.0 | 27.1 | |
| NAVASOTA | | | | | | | | | | | | | | | | | |
| DELTAPINE 16 | | | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 102 | 33 | 6.0 | 4.6 | 80 | 70 | 32 | 430 | 51 | 78.9 | 9.3 | 92.4 | 4.6 | 27.3 | |
| SLM | 41 | 35 | 109 | 38 | 7.0 | 5.5 | 90 | 70 | 64 | 500 | 59 | 78.7 | 8.5 | 91.5 | 3.9 | 27.2 | |
| SLM | 41 | 35 | 106 | 34 | 6.7 | 5.4 | 110 | 60 | 40 | 222 | 56 | 77.0 | 8.5 | 92.4 | 3.4 | 26.8 | |
| NORTHWEST TEXAS | | | | | | | | | | | | | | | | | |
| ANTON | | | | | | | | | | | | | | | | | |
| PAYMASTER 266 | | | | | | | | | | | | | | | | | |
| LM | 51 | 32 | 109 | 37 | 6.7 | 4.9 | 80 | 60 | 104 | 332 | 49 | 76.5 | 9.7 | 91.5 | 5.2 | 29.6 | |
| SLM | 41 | 33 | 107 | 37 | 6.1 | 5.3 | 70 | 70 | 66 | 260 | 47 | 76.5 | 9.7 | 90.9 | 5.4 | 29.4 | |
| LM | 51 | 33 | 107 | 36 | 6.5 | 5.2 | 80 | 60 | 142 | 368 | 52 | 71.4 | 9.8 | 91.4 | 5.1 | 29.6 | |
| LM LT SP | 52 | 32 | 102 | 34 | 6.3 | 4.9 | 90 | 60 | 72 | 212 | 44 | 76.0 | 9.7 | 91.3 | 4.4 | 31.7 | |
| LORENZO | | | | | | | | | | | | | | | | | |
| PAYMASTER 303 | | | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 100 | 32 | 6.6 | 4.4 | 80 | 60 | 108 | 344 | 49 | 88.1 | 9.7 | 90.9 | 5.4 | 28.6 | |
| SLM | 41 | 31 | 92 | 29 | 6.0 | 4.6 | 80 | 60 | 82 | 156 | 43 | 78.3 | 9.6 | 91.5 | 4.5 | 29.0 | |
| SLM LT SP | 42 | 30 | 95 | 31 | 6.0 | 5.0 | 80 | 60 | 50 | 316 | 40 | 76.7 | 9.9 | 91.4 | 5.0 | 27.9 | |
| LM LT SP | 52 | 32 | 98 | 32 | 6.0 | 4.7 | 70 | 60 | 74 | 322 | 47 | 75.4 | 10.0 | 91.0 | 4.0 | 29.6 | |

1/REDUCED FROM 42 BECAUSE OF BARK.

TABLE 6. --- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | |
|-------------------------|-------|---------------------|------|--------------|------|------------------|--------|-----------------|------|-------------------------------|------|--------------------|------|---------------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | SPAN : UNIF. | | ZERO : 1/8" GAGE | | G/T EX | | VISIBLE : TOTAL WASTE : WASTE | | Rd : +b | | COLOR CODE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/T EX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. |
| NORTHWEST TEXAS LUBBOCK | | | | | | | | | | | | | | | |
| COKER 312 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 36 | 1.12 | 42 | 43 | 87 | 24 | 6.5 | 2.7 | 3.9 | 75.2 | 9.3 | 31-3 | 8.1 | |
| SLM | 41 | 36 | 1.12 | 42 | 40 | 84 | 25 | 5.8 | 2.2 | 2.9 | 76.0 | 9.0 | 31-3 | 7.9 1/ | |
| SLM | 41 | 35 | 1.11 | 45 | 46 | 89 | 24 | 5.7 | 2.7 | 4.2 | 73.3 | 9.5 | 32-2 | 8.1 | |
| PETERSBURG | | | | | | | | | | | | | | | |
| PAYMASTER 303 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 31 | 1.03 | 44 | 38 | 84 | 22 | 6.8 | 3.8 | 5.2 | 78.4 | 8.9 | 21-2 | 8.3 | |
| SLM LT SP | 42 | 32 | 1.01 | 42 | 34 | 83 | 22 | 6.7 | 2.5 | 4.5 | 76.0 | 8.8 | 31-4 | 7.7 | |
| SLM LT SP | 42 | 33 | 1.06 | 44 | 37 | 83 | 22 | 6.4 | 3.0 | 4.7 | 78.0 | 8.8 | 31-3 | 8.0 | |
| LM SP | 53 2/ | 32 | 1.04 | 46 | 37 | 81 | 21 | 7.2 | 4.2 | 5.3 | 70.2 | 10.2 | 42-1 | 8.6 | |
| RALLS | | | | | | | | | | | | | | | |
| PAYMASTER 303 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 32 | 0.99 | 42 | 36 | 87 | 22 | 6.2 | 2.3 | 3.8 | 74.1 | 9.4 | 31-4 | 8.0 1/ | |
| SLM LT SP | 42 | 32 | 1.01 | 43 | 40 | 87 | 23 | 6.3 | 3.1 | 5.5 | 75.4 | 9.3 | 31-4 | 8.4 1/ | |
| SLM LT SP | 42 | 32 | 1.02 | 44 | 37 | 84 | 23 | 6.6 | 2.0 | 3.7 | 76.3 | 9.3 | 31-3 | 8.3 | |
| LM LT SP | 52 3/ | 32 | 1.00 | 45 | 39 | 85 | 24 | 7.1 | 3.2 | 4.4 | 75.0 | 9.1 | 31-4 | 7.7 | |
| TULIA | | | | | | | | | | | | | | | |
| TAMCOT CAMD E | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 31 | 0.95 | 47 | 43 | 91 | 25 | 7.0 | 3.1 | 4.3 | 76.0 | 9.8 | 31-3 | 7.6 | |
| SLM LT SP | 42 | 30 | 0.95 | 44 | 44 | 86 | 21 | 6.4 | 2.4 | 4.1 | 73.0 | 9.4 | 41-3 | 9.4 1/ | |
| SLM LT SP | 42 | 32 | 1.02 | 43 | 38 | 82 | 21 | 7.2 | 2.2 | 4.0 | 76.0 | 8.4 | 31-2 | 7.8 1/ | |
| SLM LT SP | 42 | 32 | 1.00 | 42 | 40 | 85 | 20 | 6.6 | 3.4 | 5.6 | 72.3 | 9.6 | 32-2 | 9.6 | |
| WILSON | | | | | | | | | | | | | | | |
| PAYMASTER 303 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 30 | 0.97 | 42 | 41 | 86 | 20 | 6.1 | 2.3 | 4.5 | 73.2 | 9.6 | 31-4 | 8.7 | |

1/ COTTON STUCK TO PROCESSING ROLLS.

2/ REDUCED FROM 43 BECAUSE OF BARK.

3/ REDUCED FROM 42 BECAUSE OF BARK.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | |
|--------------------|------|-----------------|------|------------|--------|------------|-------|-----------|-----|-----|-----|----------------------------------|-------|----------|-------|---------|-------|--|--|
| AND CLASSIFICATION | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | CRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | 22s : 50s | | 22s : 50s | | 22s : 50s | | 22s : 50s | | NO. | | Rd : +b | | Rd : +b | | Rd : -b | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | |
| NORTHWEST TEXAS | | | | | | | | | | | | | | | | | | | |
| LUBBOCK | | | | | | | | | | | | | | | | | | | |
| COKER 312 | | | | | | | | | | | | | | | | | | | |
| SLM | LT | SP 42 | 36 | 106 | 37 | 6.1 | 5.0 | 70 | 60 | 192 | 542 | 56 | 76.0 | 9.8 | 91.6 | 4.7 | 27.0 | | |
| SLM | 41 | | 36 | 110 | 37 | 6.2 | 5.1 | 70 | 60 | 174 | 590 | 60 | 77.8 | 9.7 | 90.6 | 5.5 | 28.3 | | |
| SLM | 41 | | 35 | 107 | 37 | 6.1 | 4.7 | 90 | 60 | 130 | 510 | 51 | 76.4 | 10.1 | 90.1 | 4.4 | 28.9 | | |
| PETERSBURG | | | | | | | | | | | | | | | | | | | |
| PAYMASTER 303 | | | | | | | | | | | | | | | | | | | |
| SLM | LT | SP 42 | 31 | 101 | 33 | 6.4 | 5.1 | 60 | 60 | 154 | 426 | 50 | 76.6 | 9.5 | 91.4 | 4.8 | 29.0 | | |
| SLM | LT | SP 42 | 32 | 102 | 30 | 6.3 | 4.5 | 70 | 60 | 74 | 342 | 50 | 77.1 | 9.7 | 90.9 | 4.9 | 26.8 | | |
| SLM | LT | SP 42 | 33 | 108 | 37 | 6.8 | 5.4 | 80 | 60 | 122 | 490 | 61 | 78.2 | 9.7 | 92.0 | 5.1 | 28.0 | | |
| LM | SP | 53 1/2 | 32 | 95 | 31 | 6.0 | 4.7 | 70 | 60 | 158 | 290 | 49 | 73.2 | 10.7 | 91.5 | 4.7 | 30.6 | | |
| RALLS | | | | | | | | | | | | | | | | | | | |
| PAYMASTER 303 | | | | | | | | | | | | | | | | | | | |
| SLM | LT | SP 42 | 32 | 97 | 31 | 6.0 | 4.8 | 70 | 60 | 74 | 320 | 43 | 77.0 | 9.8 | 92.3 | 4.8 | 29.7 | | |
| SLM | LT | SP 42 | 32 | 100 | 32 | 6.4 | 5.1 | 70 | 60 | 108 | 358 | 48 | 76.6 | 9.7 | 93.9 | 4.5 | 28.1 | | |
| SLM | LT | SP 42 | 32 | 102 | 33 | 6.4 | 5.0 | 80 | 60 | 58 | 380 | 52 | 78.0 | 10.1 | 88.5 | 6.2 | 27.8 | | |
| LM | LT | SP 52 1/2 | 32 | 101 | 35 | 6.4 | 4.9 | 60 | 60 | 132 | 284 | 50 | 75.9 | 9.9 | 91.7 | 4.1 | 31.8 | | |
| TULIA | | | | | | | | | | | | | | | | | | | |
| TAMCOT CAMD E | | | | | | | | | | | | | | | | | | | |
| 70 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM | LT | SP 42 | 31 | 102 | 33 | 6.6 | 5.1 | 90 | 70 | 44 | 300 | 49 | 74.1 | 9.8 | 90.2 | 5.9 | 29.9 | | |
| SLM | LT | SP 42 | 30 | 75 | 21 3/4 | 5.4 | 4.6 | 120 | 70 | 38 | 212 | 25 1/4 | 74.7 | 9.7 | 89.6 | 5.9 | 28.4 | | |
| SLM | LT | SP 42 | 32 | 101 | 34 | 6.5 | 4.9 | 80 | 60 | 42 | 270 | 53 | 77.2 | 9.4 | 91.9 | 4.2 | 28.8 | | |
| SLM | LT | SP 42 | 32 | 92 | 31 | 6.7 | 5.3 | 70 | 60 | 124 | 472 | 41 | 75.6 | 10.0 | 90.2 | 4.9 | 29.7 | | |
| WILSON | | | | | | | | | | | | | | | | | | | |
| PAYMASTER 303 | | | | | | | | | | | | | | | | | | | |
| 80 PERCENT | | | | | | | | | | | | | | | | | | | |
| SLM | LT | SP 42 | 30 | 92 | 30 3/4 | 5.7 | 5.2 | 80 | 70 | 54 | 142 | 39 | 75.6 | 9.7 | 91.3 | 4.7 | 29.6 | | |
| 30.9 | | | | | | | | | | | | | | | | | | | |

1/ REDUCED FROM 43 BECAUSE OF BARK.

2/ REDUCED FROM 42 BECAUSE OF BARK.

3/ END BREAKAGE TOO HIGH TO SPIN 50s YARN. 36s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.

4/ THIS IS AN ESTIMATED VALUE BELOW THE RANGE OF THE TEST.

TABLE 6.--- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | |
|--------------------|------|---------------------|------|--------------|------|----------------|-------|-----------------|------|--------------------------|------|--------------------|------|---------------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | SPAN : UNIF. | | ZERO : GAGE | | GAGE : GAGE | | VISIBLE : WASTE | | Rd : +b : CODE | | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDC. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. |
| ARIZONA | | | | | | | | | | | | | | | |
| BOWIE | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | |
| M | 31 | 35 | 1.10 | 44 | 44 | 79 | 21 | 7.3 | 1.0 | 2.2 | 81.0 | 8.6 | 11-2 | 5.4 | |
| M | 31 | 35 | 1.08 | 45 | 41 | 87 | 23 | 6.1 | 1.3 | 2.7 | 80.5 | 8.6 | 21-1 | 7.0 | |
| M | 31 | 35 | 1.10 | 44 | 39 | 81 | 22 | 6.9 | 1.0 | 2.5 | 82.0 | 8.0 | 11-2 | 5.8 | |
| BUCKEYE | | | | | | | | | | | | | | | |
| STONEVILLE 213 | | | | | | | | | | | | | | | |
| M | 31 | 35 | 1.06 | 43 | 49 | 89 | 23 | 5.4 | 1.1 | 2.2 | 77.3 | 9.3 | 21-4 | 7.1 | 1/ |
| M | 31 | 35 | 1.08 | 43 | 46 | 88 | 23 | 5.6 | 1.1 | 3.3 | 80.0 | 8.0 | 21-2 | 7.3 | |
| SLM+ | 40 | 34 | 1.07 | 41 | 46 | 94 | 23 | 4.4 | 1.4 | 3.7 | 80.3 | 8.0 | 21-1 | 6.5 | |
| CHANDLER | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | |
| M | 31 | 35 | 1.12 | 42 | 49 | 83 | 24 | 7.3 | 1.1 | 1.8 | 81.3 | 8.0 | 21-1 | 6.1 | |
| M | 31 | 35 | 1.10 | 43 | 47 | 86 | 23 | 6.7 | 1.5 | 2.8 | 79.8 | 8.1 | 21-2 | 6.4 | |
| M | 31 | 35 | 1.09 | 42 | 44 | 87 | 24 | 7.0 | 1.1 | 2.6 | 80.0 | 7.8 | 21-2 | 6.3 | |
| ELOY | | | | | | | | | | | | | | | |
| DELTAPINE 41 | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 1.11 | 43 | 48 | 94 | 25 | 5.9 | 2.0 | 3.5 | 80.1 | 8.6 | 21-1 | 6.8 | |
| SLM | 41 | 35 | 1.10 | 42 | 47 | 94 | 23 | 5.3 | 2.1 | 3.8 | 78.2 | 8.8 | 31-1 | 7.4 | |
| M | 31 | 35 | 1.11 | 43 | 43 | 91 | 24 | 5.9 | 1.4 | 2.3 | 79.5 | 8.4 | 21-2 | 6.3 | |
| MARIPOSA | | | | | | | | | | | | | | | |
| DELTAPINE 55 | | | | | | | | | | | | | | | |
| M | 31 | 35 | 1.09 | 42 | 47 | 92 | 23 | 5.7 | 1.2 | 2.2 | 80.1 | 8.8 | 21-1 | 7.5 | |
| M | 31 | 35 | 1.10 | 43 | 46 | 91 | 22 | 5.5 | 1.2 | 2.8 | 80.7 | 8.4 | 21-1 | 6.6 | |
| M | 31 | 35 | 1.09 | 43 | 48 | 85 | 23 | 6.5 | 0.9 | 2.3 | 82.4 | 7.5 | 21-1 | 5.3 | |
| PARKER | | | | | | | | | | | | | | | |
| STONEVILLE 825 | | | | | | | | | | | | | | | |
| M | 31 | 35 | 1.07 | 42 | 46 | 91 | 23 | 5.3 | 1.2 | 2.2 | 81.0 | 8.0 | 21-1 | 6.5 | |
| SLM | 41 | 35 | 1.11 | 43 | 44 | 92 | 22 | 4.8 | 2.2 | 3.5 | 78.2 | 8.2 | 31-1 | 7.6 | 1/ |
| SLM+ | 40 | 35 | 1.07 | 43 | 44 | 88 | 22 | 4.6 | 1.7 | 2.8 | 81.0 | 7.7 | 21-2 | 7.6 | 1/ |

COTTON STUCK TO PROCESSING ROLLS.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | |
|--------------------|------|----------|-----------------|------|------------|------|------------|-------|-----------|-----|-----|------|----------------------------------|------|----------|------|---------|--|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | | 22s : 50s | | 22s : 50s | | 22s : 50s | | 22s : 50s | | NO. | | Rd : +b | | Rd : +b | | Rd : -b | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | |
| ARIZONA | | | | | | | | | | | | | | | | | | | | |
| BOWIE | | | STONEVILLE 213 | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 101 | 36 | 6.8 | 5.7 | 70 | 70 | 64 | 252 | 57 | 89.6 | 9.6 | 92.7 | 4.4 | 26.6 | 33.5 | | | |
| M | 31 | 35 | 99 | 33 | 6.5 | 4.8 | 80 | 60 | 106 | 264 | 52 | 80.3 | 9.4 | 88.8 | 5.6 | 27.6 | 32.4 | | | |
| M | 31 | 35 | 106 | 36 | 7.5 | 5.8 | 80 | 60 | 118 | 276 | 62 | 81.0 | 9.3 | 92.6 | 4.6 | 27.5 | 33.0 | | | |
| BUCKEYE | | | STONEVILLE 213 | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 95 | 29 | 5.1 | 3.8 | 70 | 60 | 72 | 574 | 42 | 79.5 | 9.4 | 91.1 | 4.6 | 27.3 | 32.7 | | | |
| M | 31 | 35 | 97 | 30 | 6.0 | 4.3 | 110 | 60 | 50 | 284 | 44 | 80.8 | 9.0 | 91.6 | 4.5 | 25.7 | 34.0 | | | |
| SLM+ | 40 | 34 | 104 | 34 | 5.5 | 4.3 | 100 | 60 | 60 | 368 | 52 | 75.0 | 8.9 | 89.8 | 5.1 | 27.3 | 32.1 | | | |
| CHANDLER | | | DELTAPINE 61 | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 106 | 35 | 7.3 | 5.6 | 90 | 60 | 72 | 404 | 52 | 89.5 | 8.9 | 93.2 | 4.5 | 27.6 | 33.2 | | | |
| M | 31 | 35 | 104 | 35 | 6.3 | 5.0 | 80 | 60 | 74 | 512 | 51 | 80.2 | 8.6 | 91.0 | 4.5 | 28.4 | 32.1 | | | |
| M | 31 | 35 | 106 | 37 | 6.3 | 5.0 | 90 | 60 | 46 | 416 | 51 | 75.6 | 8.4 | 92.1 | 4.3 | 28.5 | 32.0 | | | |
| ELOY | | | DELTAPINE 41 | | | | | | | | | | | | | | | | | |
| SLM | 41 | 35 | 103 | 34 | 6.3 | 5.1 | 90 | 60 | 112 | 356 | 57 | 78.5 | 8.8 | 91.8 | 4.5 | 27.1 | 32.8 | | | |
| SLM | 41 | 35 | 114 | 37 | 6.0 | 4.8 | 80 | 60 | 56 | 344 | 56 | 80.1 | 8.8 | 94.8 | 3.6 | 26.8 | 33.1 | | | |
| M | 31 | 35 | 109 | 36 | 6.4 | 4.8 | 80 | 60 | 66 | 336 | 57 | 80.8 | 8.5 | 92.5 | 4.3 | 26.4 | 33.8 | | | |
| MARIKOPA | | | DELTAPINE 55 | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 102 | 34 | 5.3 | 4.6 | 90 | 60 | 36 | 306 | 53 | 80.2 | 9.1 | 92.1 | 4.0 | 28.2 | 32.7 | | | |
| M | 31 | 35 | 106 | 33 | 6.1 | 4.4 | 80 | 60 | 60 | 328 | 59 | 80.0 | 8.9 | 91.8 | 4.4 | 28.7 | 32.1 | | | |
| M | 31 | 35 | 105 | 35 | 6.4 | 4.9 | 80 | 60 | 66 | 288 | 55 | 76.6 | 8.2 | 92.8 | 3.9 | 28.1 | 32.6 | | | |
| PARKER | | | STONEVILLE 825 | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 97 | 31 | 5.3 | 3.8 | 90 | 60 | 52 | 204 | 50 | 89.7 | 8.6 | 90.4 | 5.7 | 26.5 | 33.3 | | | |
| SLM | 41 | 35 | 98 | 33 | 5.6 | 4.0 | 70 | 60 | 66 | 356 | 52 | 80.8 | 8.8 | 92.5 | 3.6 | 27.4 | 32.9 | | | |
| SLM+ | 40 | 35 | 98 | 32 | 5.5 | 4.5 | 80 | 60 | 130 | 430 | 50 | 75.4 | 8.6 | 91.5 | 4.3 | 27.4 | 32.8 | | | |

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | FIBER STRENGTH | | 1/8" ELONGATION | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD |
|--------------------|-------------|---------------------|---------|-------------|------------------|------|-----------------|-----------------------|-------|--------------------|-------|---------------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | NAIRE | ZERO : 1/8" GAGE | | GATION | VISIBLE : TOTAL WASTE | | : +b : CODE | | WASTE |
| GRADE | : STAPLE | SPAN | : UNIF. | | | GAGE | | | WASTE | | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | NO. |
| ARIZONA | | | | | | | | | | | | |
| QUEEN CREEK | | | | | | | | | | | | |
| DELTAPINE 70 | | | | | | | | | | | | |
| M | 31 | 35 | 1.09 | 41 | 46 | 90 | 21 | 5.2 | 1.4 | 1.9 | 81.2 | 8.5 |
| M | 31 | 35 | 1.11 | 44 | 44 | 84 | 23 | 5.7 | 1.1 | 2.5 | 80.5 | 8.6 |
| M | 31 | 35 | 1.12 | 42 | 43 | 88 | 24 | 6.9 | 1.1 | 2.3 | 80.4 | 8.0 |
| SOMERTON | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | |
| M | 31 | 35 | 1.08 | 41 | 45 | 88 | 24 | 6.6 | 1.2 | 2.3 | 82.1 | 8.2 |
| M | 31 | 35 | 1.09 | 40 | 45 | 88 | 24 | 6.3 | 1.4 | 2.9 | 80.0 | 7.5 |
| M | 31 | 35 | 1.07 | 41 | 45 | 85 | 21 | 5.8 | 1.1 | 2.4 | 81.0 | 7.8 |
| M | 31 | 34 | 1.03 | 41 | 44 | 85 | 23 | 6.4 | 1.1 | 2.9 | 80.0 | 8.4 |
| WELLTON | | | | | | | | | | | | |
| DELTAPINE 70 | | | | | | | | | | | | |
| M | 31 | 35 | 1.10 | 43 | 48 | 89 | 25 | 6.7 | 1.4 | 2.5 | 81.0 | 8.2 |
| M | 31 | 35 | 1.10 | 45 | 46 | 95 | 23 | 5.7 | 1.2 | 2.5 | 77.1 | 8.8 |
| SLM | 41 <u>2</u> | 35 | 1.10 | 41 | 40 | 87 | 23 | 5.9 | 2.8 | 4.7 | 79.4 | 7.6 |
| CALIFORNIA | | | | | | | | | | | | |
| BAKERSFIELD | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | |
| 99 PERCENT | | | | | | | | | | | | |
| M | 31 | 35 | 1.11 | 47 | 44 | 99 | 27 | 5.6 | 1.0 | 1.5 | 80.3 | 8.5 |
| SLM | 41 | 36 | 1.14 | 44 | 42 | 95 | 27 | 5.6 | 1.7 | 2.9 | 78.3 | 9.2 |
| M | 31 | 36 | 1.13 | 45 | 41 | 96 | 26 | 5.7 | 1.1 | 2.4 | 80.3 | 7.9 |
| BAKERSFIELD | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | |
| 94 PERCENT | | | | | | | | | | | | |
| M | 31 | 35 | 1.07 | 45 | 47 | 102 | 27 | 4.9 | 0.9 | 1.7 | 78.0 | 9.0 |
| M | 31 | 35 | 1.10 | 45 | 42 | 93 | 26 | 5.1 | 1.1 | 1.9 | 78.4 | 8.4 |
| M | 31 | 35 | 1.08 | 45 | 42 | 95 | 24 | 5.9 | 1.0 | 2.3 | 78.2 | 8.4 |

1/COTTON STUCK TO PROCESSING ROLLS.
2/REDUCED FROM 31 BECAUSE OF GRASS.

6.1
6.6
6.1
6.4
7.2
7.5
8.0
6.7
6.4
7.2
7.5
6.1
6.8
5.8
3.9
7.0
6.2

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|---|-----------------|----------|-----------------|-----------------|------------|------|------------|-------|-----------|-----|-----------------|------|----------------------------------|-------|----------|-------|---------|-------|--|--|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | Rd : +b | PCT. | Rd : +b | PCT. | Rd : -b | PCT. | | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | | |
| ARIZONA | | | 100 PERCENT | | | | | | | | | | | | | | | | | | | |
| QUEEN CREEK | | | DELTAPINE 70 | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 98 | 31 | 6.4 | 4.5 | 80 | 60 | 108 | 364 | 50 | 90.2 | 8.9 | 92.1 | 4.7 | 27.5 | 33.0 | | | | | |
| M | 31 | 35 | 109 | 36 | 6.4 | 4.9 | 80 | 60 | 82 | 404 | 60 | 80.6 | 9.1 | 92.5 | 3.8 | 28.7 | 31.9 | | | | | |
| M | 31 | 35 | 109 | 38 | 6.6 | 5.0 | 70 | 60 | 82 | 470 | 61 | 76.9 | 8.3 | 93.3 | 3.7 | 29.3 | 31.8 | | | | | |
| SOMERTON | | | 97 PERCENT | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 91 | 27 | 6.1 | 4.7 | 70 | 60 | 74 | 422 | 43 | 80.8 | 8.7 | 90.3 | 5.5 | 27.9 | 32.6 | | | | | |
| M | 31 | 35 | 88 | 30 | 5.3 | 4.5 | 60 | 60 | 72 | 636 | 39 | 80.8 | 8.6 | 93.2 | 4.0 | 28.1 | 32.3 | | | | | |
| M | 31 | 35 | 91 | 30 | 5.8 | 4.7 | 80 | 60 | 60 | 516 | 42 | 81.0 | 8.2 | 91.5 | 4.8 | 26.5 | 33.6 | | | | | |
| M | 31 | 34 | 85 | 24 ¹ | 5.8 | 4.5 | 90 | 60 | 88 | 238 | 25 ² | 74.7 | 8.7 | 90.9 | 4.6 | 24.7 | 34.5 | | | | | |
| WELLTON | | | 75 PERCENT | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 70 | | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 103 | 36 | 6.4 | 5.0 | 90 | 60 | 102 | 478 | 55 | 80.3 | 8.6 | 91.1 | 4.4 | 27.5 | 32.6 | | | | | |
| M | 31 | 35 | 105 | 36 | 5.5 | 4.4 | 80 | 60 | 54 | 368 | 55 | 79.8 | 9.3 | 92.6 | 4.9 | 28.2 | 31.9 | | | | | |
| SLM | 41 ³ | 35 | 109 | 37 | 6.2 | 4.6 | 80 | 60 | 66 | 318 | 61 | 75.7 | 8.3 | 92.8 | 3.8 | 27.3 | 33.1 | | | | | |
| CALIFORNIA | | | 99 PERCENT | | | | | | | | | | | | | | | | | | | |
| BAKERSFIELD | | | ACALA SJ-2 | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 127 | 46 | 6.5 | 5.5 | 100 | 70 | 100 | 248 | 74 | 89.2 | 8.9 | 91.0 | 4.8 | 27.0 | 33.0 | | | | | |
| SLM | 41 | 36 | 133 | 50 | 6.5 | 5.4 | 70 | 60 | 96 | 304 | 79 | 79.0 | 9.3 | 91.9 | 4.5 | 27.3 | 32.3 | | | | | |
| M | 31 | 36 | 139 | 51 | 6.5 | 5.1 | 90 | 70 | 118 | 306 | 82 | 80.7 | 8.7 | 93.4 | 4.3 | 27.1 | 32.7 | | | | | |
| BAKERSFIELD | | | 94 PERCENT | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 122 | 44 | 5.9 | 5.1 | 70 | 60 | 84 | 418 | 63 | 88.9 | 9.0 | 91.7 | 4.3 | 26.6 | 32.9 | | | | | |
| M | 31 | 35 | 119 | 43 | 5.5 | 5.0 | 70 | 60 | 192 | 578 | 64 | 78.7 | 9.3 | 91.3 | 4.2 | 28.4 | 32.3 | | | | | |
| M | 31 | 35 | 118 | 43 | 5.8 | 5.0 | 70 | 60 | 98 | 358 | 64 | 78.6 | 9.2 | 91.6 | 5.0 | 27.6 | 32.4 | | | | | |
| END BREAKAGE TOO HIGH TO SPIN 50s YARN. 36s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s. | | | | | | | | | | | | | | | | | | | | | | |
| THIS IS AN ESTIMATED VALUE BELOW THE RANGE OF THE TEST. | | | | | | | | | | | | | | | | | | | | | | |
| REDUCED FROM 31 BECAUSE OF GRASS. | | | | | | | | | | | | | | | | | | | | | | |

¹ END BREAKAGE TOO HIGH TO SPIN 50s YARN. 36s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.² THIS IS AN ESTIMATED VALUE BELOW THE RANGE OF THE TEST.³ REDUCED FROM 31 BECAUSE OF GRASS.

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | RDG. | FIBER STRENGTH | | 1/8" ELONGATION | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD |
|------------------------|----------|---------------------|---------|------|----------------|--------|-----------------|------------------|---------------|--------------------|-------------|---------------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | | MICRO-NAIRE | | | NONLINT | | | | |
| GRADE | : STAPLE | SPAN | : UNIF. | | ZERO : GAGE | : GAGE | | VISIBLE : WASTE | : TOTAL WASTE | Rd | : +b : CODE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | NO. | PCT. |
| CALIFORNIA BAKERSFIELD | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | |
| M | 31 | 35 | 1.09 | 44 | 42 | 97 | 26 | 1.0 | 2.3 | 81.2 | 9.3 | 11-2 |
| M | 31 | 35 | 1.09 | 44 | 43 | 94 | 26 | 1.1 | 2.1 | 79.2 | 8.4 | 21-2 |
| M | 31 | 35 | 1.11 | 44 | 43 | 91 | 24 | 1.0 | 2.7 | 78.0 | 9.0 | 31-3 |
| BLYTHE | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | |
| M | 31 | 35 | 1.07 | 45 | 49 | 88 | 25 | 1.0 | 1.7 | 76.0 | 9.3 | 31-3 |
| M | 31 | 34 | 1.06 | 43 | 45 | 97 | 22 | 1.2 | 2.1 | 79.2 | 8.2 | 21-2 |
| M | 31 | 34 | 1.08 | 41 | 48 | 89 | 23 | 1.0 | 2.7 | 81.4 | 7.5 | 21-1 |
| M | 31 | 34 | 1.04 | 41 | 43 | 88 | 25 | 1.0 | 2.6 | 81.3 | 7.6 | 21-2 |
| M | 31 | 34 | 1.05 | 41 | 46 | 84 | 21 | 1.4 | 2.9 | 82.2 | 7.7 | 21-1 |
| LM LT SP 52 2J | 31 | 32 | 1.00 | 38 | 33 | 84 | 21 | 3.1 | 5.4 | 74.3 | 8.9 | 31-4 |
| BRAWLEY | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | |
| M | 31 | 35 | 1.07 | 43 | 48 | 93 | 22 | 1.1 | 3.2 | 78.0 | 8.4 | 21-2 |
| M | 31 | 35 | 1.07 | 43 | 42 | 92 | 24 | 1.0 | 2.4 | 80.3 | 8.3 | 21-2 |
| M | 31 | 35 | 1.05 | 41 | 44 | 89 | 22 | 1.0 | 2.3 | 79.3 | 8.2 | 21-2 |
| M | 31 | 34 | 1.06 | 42 | 46 | 89 | 23 | 0.9 | 2.4 | 80.3 | 8.2 | 21-2 |
| M | 31 | 34 | 1.06 | 42 | 47 | 88 | 22 | 0.9 | 1.9 | 80.2 | 8.1 | 21-2 |
| BUTTONWILLOW | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | |
| M | 31 | 35 | 1.09 | 45 | 44 | 99 | 28 | 1.0 | 1.7 | 81.4 | 8.3 | 21-1 |
| M | 31 | 35 | 1.09 | 44 | 46 | 94 | 25 | 0.8 | 1.8 | 79.2 | 8.9 | 21-3 |
| M | 31 | 35 | 1.07 | 45 | 45 | 95 | 23 | 0.9 | 2.4 | 80.5 | 9.0 | 11-2 |
| CANTUA CREEK | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | |
| M | 31 | 36 | 1.11 | 44 | 41 | 98 | 27 | 1.2 | 1.7 | 80.3 | 9.0 | 21-1 |
| M | 31 | 36 | 1.12 | 43 | 38 | 90 | 25 | 1.4 | 3.2 | 79.3 | 8.4 | 21-2 |
| M | 31 | 36 | 1.12 | 46 | 40 | 89 | 26 | 1.2 | 2.4 | 79.0 | 8.8 | 21-2 |

1J COTTON STUCK TO PROCESSING ROLLS.
2J REDUCED FROM 42 BECAUSE OF BARK.

TABLE 6. ---CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | |
|--------------------|--------|----------|-----------------|--------|------------|------|------------|-------|-----------|-----|--------|------|----------------------------------|-------|----------|-------|---------|-------|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | NO. | NO. | Rd : +b | +b | Rd : +b | +b | Rd : -b | -b | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | |
| CALIFORNIA | | | | | | | | | | | | | | | | | | | | |
| BAKERSFIELD | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 123 | 41 | 6.6 | 5.4 | 90 | 60 | 108 | 320 | 63 | 79.4 | 9.1 | 88.6 | 6.0 | 28.4 | 31.7 | 31.7 | | |
| M | 31 | 35 | 121 | 44 | 6.2 | 5.0 | 70 | 60 | 118 | 384 | 63 | 79.6 | 9.0 | 92.2 | 4.6 | 28.3 | 32.3 | 32.3 | | |
| M | 31 | 35 | 125 | 44 | 6.5 | 5.3 | 70 | 60 | 86 | 246 | 67 | 79.2 | 9.0 | 91.3 | 4.3 | 27.3 | 32.4 | 32.4 | | |
| BLYTHE | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 113 | 41 | 6.1 | 5.0 | 90 | 60 | 50 | 150 | 62 | 77.6 | 9.3 | 91.7 | 4.8 | 27.2 | 32.5 | 32.5 | | |
| M | 31 | 34 | 98 | 32 | 5.7 | 4.6 | 70 | 60 | 100 | 362 | 45 | 89.1 | 8.9 | 92.0 | 4.6 | 28.0 | 32.5 | 32.5 | | |
| M | 31 | 34 | 102 | 34 | 5.7 | 4.7 | 80 | 60 | 40 | 560 | 48 | 81.0 | 8.3 | 94.6 | 3.4 | 26.4 | 33.5 | 33.5 | | |
| M | 31 | 34 | 95 | 31 | 5.7 | 4.4 | 80 | 60 | 76 | 382 | 43 | 75.5 | 8.3 | 92.4 | 4.0 | 28.5 | 32.1 | 32.1 | | |
| M | 31 | 34 | 93 | 31 | 5.8 | 4.7 | 60 | 60 | 98 | 980 | 42 | 82.4 | 8.3 | 92.3 | 4.2 | 29.8 | 31.3 | 31.3 | | |
| LM LT SP | 52 1/2 | 32 | 75 | 24 1/2 | 5.2 | 4.7 | 60 | 60 | 362 | 980 | 25 3/4 | 76.6 | 9.2 | 92.4 | 3.8 | 31.3 | 30.2 | 30.2 | | |
| BRAWLEY | | | | | | | | | | | | | | | | | | | | |
| DELTAPINE 61 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 106 | 35 | 6.0 | 4.7 | 90 | 60 | 50 | 350 | 53 | 80.4 | 8.6 | 91.9 | 4.5 | 26.8 | 33.3 | 33.3 | | |
| M | 31 | 35 | 100 | 31 | 6.0 | 4.4 | 90 | 60 | 62 | 528 | 47 | 81.0 | 8.4 | 91.8 | 4.8 | 27.0 | 33.3 | 33.3 | | |
| M | 31 | 35 | 103 | 35 | 5.9 | 4.6 | 70 | 60 | 76 | 412 | 52 | 80.0 | 8.6 | 91.3 | 5.0 | 30.0 | 31.1 | 31.1 | | |
| M | 31 | 34 | 107 | 37 | 6.3 | 4.4 | 80 | 60 | 46 | 218 | 52 | 79.7 | 8.5 | 92.7 | 3.8 | 29.2 | 32.0 | 32.0 | | |
| M | 31 | 34 | 104 | 34 | 5.8 | 4.4 | 90 | 70 | 30 | 244 | 42 | 81.1 | 8.4 | 91.6 | 4.3 | 26.8 | 33.3 | 33.3 | | |
| BUTTONWILLOW | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 116 | 42 | 6.6 | 5.6 | 80 | 70 | 120 | 358 | 62 | 80.4 | 8.8 | 91.4 | 4.2 | 27.5 | 32.5 | 32.5 | | |
| M | 31 | 35 | 123 | 43 | 6.0 | 4.8 | 70 | 60 | 92 | 418 | 61 | 78.9 | 9.4 | 91.9 | 4.1 | 26.8 | 32.6 | 32.6 | | |
| M | 31 | 35 | 122 | 44 | 6.2 | 4.9 | 80 | 60 | 136 | 478 | 62 | 79.5 | 9.5 | 90.8 | 4.8 | 29.6 | 31.0 | 31.0 | | |
| CANTUA CREEK | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 126 | 46 | 6.8 | 5.8 | 70 | 60 | 154 | 490 | 74 | 89.5 | 9.0 | 91.6 | 4.3 | 28.2 | 31.9 | 31.9 | | |
| M | 31 | 36 | 127 | 45 | 7.0 | 5.3 | 80 | 60 | 170 | 412 | 72 | 80.0 | 8.8 | 94.8 | 3.4 | 28.0 | 32.4 | 32.4 | | |
| M | 31 | 36 | 121 | 42 | 6.8 | 5.3 | 90 | 60 | 88 | 314 | 70 | 80.2 | 9.0 | 92.2 | 3.8 | 28.4 | 32.2 | 32.2 | | |

^{1/}REDUCED FROM 42 BECAUSE OF BARK.^{2/}END BREAKAGE TOO HIGH TO SPIN 50s YARN. 44s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.^{3/}THIS IS AN ESTIMATED VALUE BELOW THE RANGE OF THE TEST.

TABLE 6.-- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD | |
|---------------------|------|---------------------|------|--------------|------|------------------|-------|-----------------|------|-------------------------------|------|--------------------|------|---------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | SPAN : UNIF. | | ZERO : 1/8" GAGE | | GATION | | VISIBLE : TOTAL WASTE : WASTE | | Rd : +b : CODE | | COLOR : CODE | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. |
| CALIFORNIA CORCORAN | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | |
| M+ | 30 | 34 | 1.07 | 44 | 47 | 99 | 27 | 6.0 | 1.2 | 2.5 | 80.2 | 9.0 | 21-2 | 7.3 | |
| M | 31 | 35 | 1.12 | 43 | 43 | 96 | 26 | 5.6 | 1.3 | 2.1 | 80.1 | 8.6 | 21-1 | 6.1 | |
| M | 31 | 35 | 1.09 | 44 | 45 | 96 | 25 | 5.9 | 2.2 | 3.3 | 79.0 | 8.9 | 21-2 | 7.2 | 1/ |
| CORCORAN | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | |
| M | 31 | 35 | 1.10 | 45 | 44 | 95 | 27 | 6.4 | 1.7 | 2.4 | 80.0 | 8.6 | 21-2 | 6.6 | 1/ |
| SLM+ | 40 | 36 | 1.10 | 47 | 45 | 97 | 27 | 6.2 | 1.1 | 1.8 | 79.1 | 8.5 | 31-1 | 6.9 | 1/ |
| SLM LT SP | 42 | 37 | 1.11 | 45 | 44 | 90 | 26 | 6.4 | 2.2 | 3.1 | 77.3 | 9.0 | 31-1 | 6.8 | 1/ |
| DOS PALOS | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | |
| SLM | 41 | 37 | 1.18 | 45 | 41 | 96 | 29 | 5.9 | 2.1 | 2.8 | 80.1 | 7.8 | 31-1 | 6.9 | |
| SLM LT SP | 42 | 37 | 1.17 | 46 | 41 | 99 | 27 | 5.6 | 1.1 | 2.6 | 81.0 | 8.0 | 21-1 | 4.9 | |
| SLM+ | 40 | 36 | 1.13 | 46 | 38 | 96 | 26 | 5.4 | 1.6 | 3.2 | 78.8 | 8.3 | 21-2 | 6.8 | |
| FIREBAUGH | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | |
| M | 31 | 36 | 1.15 | 45 | 40 | 94 | 28 | 6.3 | 1.9 | 2.4 | 81.0 | 8.2 | 21-1 | 5.9 | |
| M | 31 | 36 | 1.14 | 45 | 45 | 97 | 27 | 6.2 | 1.3 | 2.3 | 78.4 | 8.6 | 21-2 | 6.6 | |
| M | 31 | 37 | 1.16 | 45 | 41 | 96 | 27 | 5.6 | 1.8 | 3.4 | 79.0 | 8.4 | 21-2 | 8.0 | |
| HANFORD | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | |
| M | 31 | 36 | 1.09 | 47 | 42 | 99 | 26 | 4.6 | 0.9 | 1.5 | 80.4 | 8.7 | 21-1 | 5.0 | 1/ |
| SLM | 41 | 37 | 1.15 | 44 | 33 | 90 | 25 | 6.1 | 2.1 | 3.5 | 78.0 | 8.2 | 31-1 | 7.0 | 1/ |
| SLM | 41 | 36 | 1.13 | 45 | 42 | 95 | 25 | 5.4 | 2.3 | 3.8 | 77.0 | 8.4 | 31-1 | 7.0 | 1/ |
| HANFORD | | | | | | | | | | | | | | | |
| ACALA SJ-5 | | | | | | | | | | | | | | | |
| M | 31 | 36 | 1.12 | 44 | 42 | 99 | 25 | 6.1 | 1.0 | 1.8 | 80.4 | 8.8 | 11-2 | 6.0 | 1/ |
| M | 31 | 36 | 1.12 | 44 | 40 | 100 | 29 | 5.0 | 1.0 | 1.6 | 80.1 | 8.4 | 21-2 | 6.0 | 1/ |
| M | 31 | 36 | 1.13 | 44 | 37 | 99 | 27 | 5.5 | 1.2 | 1.9 | 81.2 | 8.2 | 21-1 | 7.4 | 1/ |

1/ COTTON STUCK TO PROCESSING ROLLS.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|--------------------|------|----------|-----------------|------|------------|------|------------|-----|-----------|-----|-----|------|----------------------------------|------|----------|------|---------|----|--|--|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | NO. | NO. | Rd : +b | +b | Rd : +b | +b | Rd : -b | -b | | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | | | |
| CALIFORNIA | | | | | | | | | | | | | | | | | | | | | | |
| CORCORAN | | | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | | | |
| M+ | 30 | 34 | 99 | 33 | 6.0 | 4.8 | 70 | 60 | 110 | 558 | 44 | 79.4 | 9.4 | 91.5 | 4.8 | 27.1 | 32.5 | | | | | |
| M | 31 | 35 | 122 | 44 | 6.0 | 4.9 | 70 | 60 | 124 | 494 | 61 | 79.4 | 9.3 | 91.6 | 4.5 | 26.1 | 33.5 | | | | | |
| M | 31 | 35 | 122 | 43 | 5.7 | 4.8 | 70 | 60 | 132 | 482 | 59 | 79.0 | 9.5 | 90.4 | 4.5 | 28.6 | 31.6 | | | | | |
| CORCORAN | | | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 110 | 40 | 6.3 | 5.5 | 80 | 60 | 108 | 464 | 57 | 79.8 | 9.1 | 91.3 | 4.4 | 27.9 | 32.1 | | | | | |
| SLM+ | 40 | 36 | 120 | 42 | 5.8 | 4.8 | 70 | 60 | 122 | 272 | 58 | 88.8 | 8.8 | 76.0 | 5.3 | 27.1 | 32.8 | | | | | |
| SLM LT SP | 42 | 37 | 125 | 46 | 6.1 | 5.3 | 70 | 60 | 152 | 348 | 70 | 78.7 | 9.1 | 91.7 | 4.3 | 29.3 | 31.6 | | | | | |
| DOS PALOS | | | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | | | |
| SLM | 41 | 37 | 139 | 50 | 6.2 | 5.3 | 80 | 60 | 90 | 206 | 83 | 89.0 | 8.7 | 91.6 | 4.5 | 29.4 | 32.6 | | | | | |
| SLM LT SP | 42 | 37 | 148 | 55 | 6.6 | 5.7 | 90 | 60 | 142 | 246 | 84 | 81.0 | 8.6 | 91.5 | 4.4 | 28.7 | 31.6 | | | | | |
| SLM+ | 40 | 36 | 132 | 48 | 6.4 | 5.2 | 80 | 60 | 100 | 330 | 78 | 80.0 | 8.9 | 89.5 | 5.2 | 28.0 | 32.2 | | | | | |
| FIREBAUGH | | | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 133 | 50 | 6.7 | 5.5 | 80 | 60 | 136 | 334 | 84 | 89.4 | 8.8 | 91.6 | 4.6 | 27.5 | 32.6 | | | | | |
| M | 31 | 36 | 137 | 50 | 6.0 | 5.0 | 80 | 70 | 138 | 318 | 77 | 79.9 | 9.0 | 91.7 | 4.7 | 26.6 | 33.0 | | | | | |
| M | 31 | 37 | 131 | 48 | 6.5 | 5.3 | 110 | 60 | 122 | 446 | 76 | 79.3 | 8.9 | 90.8 | 4.8 | 28.2 | 31.9 | | | | | |
| HANFORD | | | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 117 | 40 | 6.4 | 4.7 | 90 | 60 | 122 | 382 | 61 | 89.3 | 8.9 | 91.4 | 4.3 | 27.2 | 32.5 | | | | | |
| SLM | 41 | 37 | 130 | 45 | 6.0 | 4.6 | 70 | 60 | 146 | 354 | 69 | 78.6 | 9.1 | 92.1 | 5.0 | 28.5 | 31.6 | | | | | |
| SLM | 41 | 36 | 128 | 46 | 6.0 | 4.9 | 80 | 70 | 88 | 246 | 71 | 78.4 | 9.0 | 91.6 | 4.4 | 28.3 | 32.0 | | | | | |
| HANFORD | | | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-5 | | | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 119 | 42 | 6.7 | 5.5 | 70 | 60 | 106 | 536 | 62 | 79.6 | 9.0 | 91.5 | 4.6 | 26.9 | 32.8 | | | | | |
| M | 31 | 36 | 142 | 53 | 6.0 | 5.0 | 80 | 60 | 128 | 432 | 84 | 79.3 | 9.2 | 92.4 | 4.3 | 28.6 | 32.2 | | | | | |
| M | 31 | 36 | 135 | 51 | 6.5 | 5.3 | 60 | 60 | 70 | 448 | 95 | 80.6 | 8.5 | 95.0 | 3.2 | 29.1 | 31.7 | | | | | |

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | | | |
|--------------------|------|----------|-----------------|------|------------|------|------------|-----|-----------|-----|-----------|------|----------------------------------|------|----------|------|---------|----|--|--|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | | | |
| GRADE : STAPLE | | | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | 22s : 50s | 50s | Rd : +b | +b | Rd : +b | +b | Rd : -b | -b | | | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | | | | |
| CALIFORNIA | | | | | | | | | | | | | | | | | | | | | | |
| LEMOORE | | | | | | | | | | | | | | | | | | | | | | |
| | | | ACALA SJ-2 | | | | | | | | | | | | | | | | | | | |
| | | | 92 PERCENT | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 125 | 41 | 6.0 | 4.8 | 80 | 60 | 122 | 306 | 66 | 88.9 | 9.4 | 91.2 | 4.7 | 26.3 | 33.6 | | | | | |
| M | 31 | 36 | 125 | 46 | 6.0 | 4.8 | 70 | 60 | 182 | 900 | 70 | 78.5 | 8.9 | 92.0 | 4.5 | 29.1 | 31.5 | | | | | |
| SLM | 41 | 35 | 124 | 45 | 6.1 | 4.9 | 70 | 60 | 146 | 582 | 63 | 78.1 | 9.3 | 92.2 | 5.0 | 27.5 | 32.8 | | | | | |
| | | | 85 PERCENT | | | | | | | | | | | | | | | | | | | |
| | | | ACALA SJ-2 | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 135 | 50 | 7.0 | 5.5 | 80 | 60 | 102 | 310 | 83 | 89.6 | 9.1 | 91.4 | 4.0 | 26.3 | 33.6 | | | | | |
| M | 31 | 36 | 145 | 52 | 6.3 | 5.2 | 90 | 70 | 108 | 196 | 83 | 80.3 | 8.8 | 92.4 | 4.7 | 26.8 | 32.8 | | | | | |
| M | 31 | 36 | 137 | 51 | 6.7 | 5.3 | 80 | 60 | 74 | 212 | 83 | 79.8 | 9.0 | 90.3 | 4.9 | 25.6 | 33.7 | | | | | |
| | | | 95 PERCENT | | | | | | | | | | | | | | | | | | | |
| | | | ACALA SJ-2 | | | | | | | | | | | | | | | | | | | |
| SLM+ | 40 | 36 | 132 | 46 | 5.6 | 4.8 | 90 | 60 | 118 | 434 | 74 | 78.2 | 9.3 | 90.2 | 5.0 | 27.4 | 32.8 | | | | | |
| M | 31 | 36 | 128 | 48 | 6.0 | 5.0 | 90 | 60 | 154 | 468 | 72 | 78.0 | 9.5 | 91.9 | 5.0 | 28.0 | 32.2 | | | | | |
| M | 31 | 36 | 127 | 45 | 6.1 | 4.9 | 80 | 60 | 84 | 332 | 78 | 79.0 | 9.0 | 89.2 | 5.3 | 26.6 | 33.1 | | | | | |
| | | | 98 PERCENT | | | | | | | | | | | | | | | | | | | |
| | | | ACALA SJ-2 | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 122 | 45 | 6.7 | 5.6 | 70 | 60 | 108 | 412 | 70 | 89.1 | 9.2 | 91.4 | 4.3 | 26.8 | 32.8 | | | | | |
| SLM+ | 40 | 36 | 127 | 45 | 6.1 | 5.1 | 80 | 60 | 154 | 322 | 70 | 79.4 | 9.2 | 91.6 | 4.4 | 27.0 | 33.4 | | | | | |
| SLM+ | 40 | 36 | 127 | 45 | 6.5 | 5.0 | 70 | 60 | 106 | 262 | 72 | 79.6 | 8.8 | 90.3 | 5.2 | 27.0 | 33.0 | | | | | |
| | | | 99 PERCENT | | | | | | | | | | | | | | | | | | | |
| | | | ACALA SJ-2 | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 134 | 49 | 6.4 | 5.0 | 80 | 60 | 174 | 414 | 75 | 79.5 | 9.2 | 91.7 | 4.3 | 26.7 | 32.9 | | | | | |
| M | 31 | 36 | 132 | 47 | 6.5 | 5.5 | 90 | 70 | 116 | 282 | 77 | 80.1 | 9.1 | 91.9 | 4.8 | 26.2 | 33.5 | | | | | |
| | | | 100 PERCENT | | | | | | | | | | | | | | | | | | | |
| | | | ACALA SJ-2 | | | | | | | | | | | | | | | | | | | |
| M | 31 | 35 | 120 | 43 | 6.7 | 5.3 | 70 | 60 | 114 | 358 | 70 | 80.0 | 9.1 | 91.7 | 4.4 | 26.4 | 33.4 | | | | | |
| M | 31 | 36 | 130 | 47 | 5.8 | 4.8 | 80 | 70 | 130 | 232 | 69 | 80.3 | 9.4 | 92.0 | 4.7 | 27.4 | 32.6 | | | | | |
| M | 31 | 36 | 127 | 46 | 6.4 | 5.0 | 90 | 60 | 106 | 358 | 73 | 80.0 | 9.4 | 93.2 | 4.1 | 27.7 | 32.3 | | | | | |

TABLE 6.--- CONTINUED

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | FIBER STRENGTH | | 1/8" ELONGATION | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | | |
|---|--------|---------------------|------|-------------|----------------|-------------|-----------------|------------------|---------------|--------------------|-------|---------------------|------|---------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | NAIRE | ZERO : GAGE | 1/8" GAGE | GATION | NONLINT | | COLOR | | WASTE | | |
| GRADE : STAPLE | | SPAN : UNIF. | | | GAGE : GAGE | GAGE : GAGE | | VISIBLE : WASTE | TOTAL : WASTE | Rd | +b | CODE | | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | UNITS | NO. | | |
| CALIFORNIA STRATFORD | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | |
| M | 31 | 36 | 1.11 | 46 | 39 | 95 | 26 | 6.1 | 1.5 | 2.0 | 79.3 | 8.6 | 21-1 | 5.6 1/2 |
| M | 31 | 36 | 1.11 | 44 | 38 | 95 | 25 | 6.1 | 1.1 | 2.4 | 80.2 | 9.6 | 11-4 | 6.1 1/2 |
| M | 31 | 36 | 1.09 | 45 | 43 | 92 | 25 | 6.2 | 1.3 | 2.5 | 80.0 | 8.8 | 21-1 | 5.7 1/2 |
| STRATHMORE | | | | | | | | | | | | | | |
| ACALA SJ-5 | | | | | | | | | | | | | | |
| M | 31 | 36 | 1.12 | 44 | 43 | 102 | 27 | 5.8 | 1.1 | 1.9 | 82.0 | 8.2 | 21-1 | 5.6 1/2 |
| SLM | 41 | 36 | 1.13 | 45 | 42 | 97 | 27 | 6.0 | 1.4 | 2.0 | 79.0 | 7.8 | 31-1 | 5.8 1/2 |
| SLM | 41 | 36 | 1.15 | 46 | 40 | 95 | 27 | 6.4 | 1.9 | 3.2 | 79.0 | 7.2 | 31-1 | 6.3 1/2 |
| VISALIA | | | | | | | | | | | | | | |
| ACALA SJ-5 | | | | | | | | | | | | | | |
| M | 31 | 36 | 1.10 | 45 | 44 | 103 | 27 | 5.2 | 0.9 | 1.5 | 81.4 | 8.0 | 21-1 | 4.6 1/2 |
| SLM | 41 | 36 | 1.15 | 45 | 39 | 97 | 26 | 5.8 | 1.9 | 3.3 | 77.4 | 8.2 | 31-2 | 6.4 1/2 |
| SLM LT SP | 42 | 36 | 1.12 | 44 | 40 | 91 | 26 | 5.8 | 1.5 | 3.0 | 79.3 | 7.8 | 31-1 | 6.5 1/2 |
| VISALIA | | | | | | | | | | | | | | |
| ACALA SJ-5 | | | | | | | | | | | | | | |
| M | 31 | 36 | 1.15 | 46 | 42 | 101 | 28 | 5.8 | 1.0 | 1.6 | 80.2 | 8.3 | 21-2 | 5.2 1/2 |
| M | 31 | 36 | 1.12 | 46 | 46 | 98 | 28 | 5.5 | 5.8 | 2.6 | 81.0 | 7.8 | 21-1 | 5.8 1/2 |
| M | 31 | 36 | 1.12 | 48 | 41 | 99 | 28 | 5.5 | 1.1 | 2.4 | 78.5 | 8.6 | 21-2 | 5.4 1/2 |
| WEST TEXAS SARAGOSA | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | |
| LM | 51 | 35 | 1.07 | 44 | 46 | 89 | 22 | 5.3 | 2.9 | 4.9 | 73.0 | 9.1 | 41-3 | 8.1 |
| SGO | 61 2/3 | 35 | 1.07 | 44 | 43 | 85 | 22 | 5.6 | 4.8 | 6.2 | 72.0 | 7.6 | 41-3 | 10.4 |
| SGO | 61 3/4 | 35 | 1.04 | 45 | 42 | 86 | 20 | 5.2 | 4.6 | 6.3 | 71.1 | 8.3 | 41-4 | 10.2 |
| COTTON STUCK TO PROCESSING ROLLS. REDUCED FROM 41 BECAUSE OF BARK. REDUCED FROM 51 BECAUSE OF BARK. | | | | | | | | | | | | | | |

1/ COTTON STUCK TO PROCESSING ROLLS.
 2/ REDUCED FROM 41 BECAUSE OF BARK.
 3/ REDUCED FROM 51 BECAUSE OF BARK.

TABLE 6.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | |
|----------------------------------|------|----------|-----------------|-----------|------------|-----------|------------|-----------|-----------|-----------|-----|------|----------------------------------|---------|----------|---------|---------|---------|--|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | | 22s : 50s | 22s : 50s | 22s : 50s | 22s : 50s | 22s : 50s | 22s : 50s | 22s : 50s | 22s : 50s | NO. | NO. | Rd : +b | Rd : +b | Rd : +b | Rd : +b | Rd : -b | Rd : -b | | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | |
| CALIFORNIA | | | | | | | | | | | | | | | | | | | | |
| STRATFORD | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-2 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 127 | 46 | 5.7 | 4.7 | 70 | 60 | 88 | 302 | 75 | 88.6 | 10.0 | 90.9 | 4.6 | 27.8 | 32.3 | 32.3 | | |
| M | 31 | 36 | 126 | 44 | 6.0 | 5.1 | 70 | 60 | 108 | 436 | 66 | 79.7 | 10.0 | 92.7 | 4.1 | 28.8 | 32.2 | 32.2 | | |
| M | 31 | 36 | 127 | 46 | 6.2 | 5.1 | 70 | 60 | 74 | 304 | 71 | 80.0 | 9.5 | 90.9 | 4.7 | 31.1 | 29.5 | 29.5 | | |
| STRATHMORE | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-5 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 130 | 45 | 6.8 | 5.6 | 100 | 60 | 156 | 468 | 67 | 80.2 | 8.7 | 92.2 | 4.6 | 28.2 | 32.2 | 32.2 | | |
| SLM | 41 | 36 | 138 | 51 | 6.3 | 5.3 | 70 | 60 | 168 | 414 | 84 | 88.4 | 8.8 | 91.6 | 4.7 | 28.3 | 31.9 | 31.9 | | |
| SLM | 41 | 36 | 138 | 51 | 6.5 | 5.4 | 80 | 60 | 240 | 500 | 82 | 78.9 | 8.8 | 92.8 | 4.5 | 27.5 | 32.6 | 32.6 | | |
| VISALIA | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-5 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 128 | 48 | 6.5 | 5.5 | 80 | 60 | 122 | 466 | 69 | 89.7 | 8.7 | 90.2 | 5.3 | 27.1 | 32.5 | 32.5 | | |
| SLM | 41 | 36 | 137 | 51 | 6.5 | 5.2 | 70 | 60 | 162 | 422 | 79 | 78.4 | 8.8 | 93.3 | 4.3 | 27.5 | 32.5 | 32.5 | | |
| SLM LT SP | 42 | 36 | 134 | 50 | 6.2 | 5.5 | 70 | 60 | 184 | 426 | 75 | 79.2 | 8.8 | 91.0 | 4.8 | 27.2 | 33.2 | 33.2 | | |
| VISALIA | | | | | | | | | | | | | | | | | | | | |
| ACALA SJ-5 | | | | | | | | | | | | | | | | | | | | |
| M | 31 | 36 | 147 | 55 | 6.8 | 5.7 | 80 | 70 | 134 | 286 | 93 | 89.2 | 8.9 | 90.8 | 4.2 | 27.1 | 33.0 | 33.0 | | |
| M | 31 | 36 | 144 | 52 | 6.6 | 5.3 | 80 | 60 | 130 | 296 | 88 | 80.2 | 8.8 | 91.8 | 4.5 | 29.4 | 31.2 | 31.2 | | |
| M | 31 | 36 | 144 | 53 | 6.5 | 5.2 | 70 | 60 | 180 | 396 | 80 | 79.7 | 9.2 | 91.3 | 4.8 | 26.7 | 32.6 | 32.6 | | |
| WEST TEXAS | | | | | | | | | | | | | | | | | | | | |
| SARAGOSA | | | | | | | | | | | | | | | | | | | | |
| MCNAIR 220 | | | | | | | | | | | | | | | | | | | | |
| LM | 51 | 35 | 108 | 37 | 6.0 | 4.7 | 80 | 70 | 44 | 236 | 60 | 76.0 | 9.3 | 93.5 | 4.0 | 27.2 | 32.7 | 32.7 | | |
| SGO | 61 | 35 | 107 | 37 | 5.8 | 4.4 | 80 | 60 | 76 | 470 | 57 | 75.5 | 9.3 | 92.6 | 4.7 | 28.5 | 32.0 | 32.0 | | |
| SGO | 61 | 35 | 105 | 35 | 5.4 | 4.4 | 80 | 60 | 60 | 284 | 53 | 69.0 | 9.1 | 91.2 | 4.5 | 29.4 | 31.3 | 31.3 | | |
| REDUCED FROM 41 BECAUSE OF BARK. | | | | | | | | | | | | | | | | | | | | |
| REDUCED FROM 51 BECAUSE OF BARK. | | | | | | | | | | | | | | | | | | | | |

1/REDUCED FROM 41 BECAUSE OF BARK.

2/REDUCED FROM 51 BECAUSE OF BARK.

TABLE 7.--COTTON: AMERICAN UPLAND LONG STAPLE FIBER AND YARN QUALITY CHARACTERISTICS BY PRODUCTION AREA AND CLASSIFICATION, CROP OF 1980.

| PRODUCTION AREA | | FIBER LENGTH | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | |
|--------------------|------|---------------------|------|--------------|------|------------------|-------|-----------------------|------|--------------------------|------|--------------------|------|---------------------|------|
| AND CLASSIFICATION | | 2.5% : 50/2.5 UNIF. | | SPAN : UNIF. | | ZERO : 1/8" GAGE | | VISIBLE : TOTAL WASTE | | RD : +b : CODE | | PCT. UNITS | | PCT. NO. | |
| NAME | CODE | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. |
| GEORGIA | | | | | | | | | | | | | | | |
| MADISON | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 33 | 1.05 | 44 | 43 | 95 | 23 | 5.5 | 2.6 | 3.4 | 71.3 | 10.0 | 32-2 | 8.2 | |
| SLM LT SP | 42 | 33 | 1.02 | 42 | 44 | 91 | 22 | 5.8 | 2.4 | 2.9 | 73.0 | 10.0 | 32-2 | 8.4 | |
| SLM SP | 43 | 34 | 1.04 | 44 | 47 | 92 | 23 | 5.3 | 2.3 | 3.7 | 63.3 | 10.2 | 53-1 | 8.8 | |
| NORTH CAROLINA | | | | | | | | | | | | | | | |
| DUNN | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 34 | 1.06 | 43 | 39 | 91 | 23 | 5.8 | 1.7 | 2.7 | 69.3 | 9.9 | 42-1 | 8.4 | |
| LM LT SP | 52 | 35 | 1.10 | 44 | 42 | 87 | 22 | 5.8 | 2.6 | 3.5 | 65.2 | 9.6 | 53-1 | 8.5 | |
| SLM LT SP | 42 | 34 | 1.05 | 43 | 44 | 87 | 23 | 5.6 | 2.0 | 3.3 | 68.4 | 9.2 | 42-2 | 9.1 | |
| SOUTH CAROLINA | | | | | | | | | | | | | | | |
| CLIO | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 1.08 | 44 | 42 | 91 | 22 | 5.9 | 1.6 | 3.4 | 73.8 | 9.3 | 31-4 | 7.8 | |
| SLM LT SP | 42 | 33 | 1.05 | 43 | 43 | 90 | 23 | 5.6 | 2.1 | 3.3 | 70.4 | 8.8 | 42-2 | 8.7 | |
| LM LT SP | 52 | 33 | 1.04 | 43 | 42 | 89 | 23 | 5.2 | 3.8 | 5.4 | 62.5 | 8.6 | 52-2 | 11.1 | |
| MISSOURI | | | | | | | | | | | | | | | |
| KEWANEE | | | | | | | | | | | | | | | |
| SLM | 41 | 36 | 1.14 | 44 | 46 | 90 | 27 | 5.9 | 2.4 | 3.0 | 73.5 | 9.8 | 32-1 | 8.0 | |
| SLM LT SP | 42 | 36 | 1.10 | 46 | 51 | 92 | 25 | 6.0 | 2.0 | 2.2 | 71.1 | 9.4 | 42-1 | 7.9 | |
| LM | 51 | 36 | 1.12 | 43 | 45 | 95 | 25 | 5.8 | 3.2 | 4.4 | 71.0 | 8.2 | 41-4 | 9.5 | |
| WEST TEXAS | | | | | | | | | | | | | | | |
| EL PASO | | | | | | | | | | | | | | | |
| ACALA 1517-75 | | | | | | | | | | | | | | | |
| M | 31 | 37 | 1.18 | 44 | 41 | 92 | 27 | 6.1 | 1.6 | 2.0 | 78.2 | 7.6 | 31-1 | 7.0 | |
| LM+ | 50 | 37 | 1.18 | 47 | 38 | 89 | 25 | 6.7 | 2.2 | 3.4 | 77.0 | 8.2 | 31-2 | 8.3 | |

TABLE 7.--CONTINUED

| PRODUCTION AREA | | | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | | | |
|--------------------|------|----------|-----------------|-------|------------|-------|------------|-------|------|-------|-----|-----|----------------------------------|-------|----------|-------|------|-------|------|--|
| AND CLASSIFICATION | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY | | GRAY | | BLEACHED | | DYED | | | |
| GRADE : STAPLE | | | 22s | : 50s | 22s | : 50s | 22s | : 50s | 22s | : 50s | NO. | 50s | NO. | Rd | : +b | Rd | : +b | Rd | : -b | |
| NAME | CODE | 32ND IN. | LBS. | LBS. | PCT. | PCT. | INDEX | INDEX | NO. | NO. | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | | |
| GEORGIA | | | | | | | | | | | | | | | | | | | | |
| MADISON | | | COKER 310 | | | | | | | | | | | | | | | | | |
| | SLM | LT SP 42 | 33 | 82 | 29 | 5.4 | 4.7 | 120 | 70 | 8 | 128 | 44 | 73.9 | 10.3 | 90.3 | 5.7 | 27.4 | 32.6 | | |
| | SLM | LT SP 42 | 33 | 82 | 24 | 5.4 | 4.5 | 110 | 80 | 16 | 108 | 40 | 69.3 | 10.3 | 90.0 | 5.4 | 27.0 | 32.6 | | |
| | SLM | SP 43 | 34 | 83 | 26 | 4.8 | 4.0 | 100 | 70 | 22 | 94 | 40 | 66.8 | 10.8 | 90.1 | 6.2 | 28.8 | 31.1 | | |
| NORTH CAROLINA | | | | | | | | | | | | | | | | | | | | |
| DUNN | | | COKER 310 | | | | | | | | | | | | | | | | | |
| | SLM | LT SP 42 | 34 | 105 | 33 | 6.0 | 4.7 | 110 | 70 | 14 | 266 | 55 | 73.0 | 10.2 | 91.9 | 4.7 | 27.9 | 32.3 | | |
| | LM | LT SP 52 | 35 | 94 | 30 | 5.7 | 4.6 | 100 | 60 | 28 | 134 | 54 | 68.8 | 9.6 | 91.1 | 4.9 | 30.7 | 30.3 | | |
| | SLM | LT SP 42 | 34 | 84 | 28 | 4.7 | 3.9 | 100 | 80 | 38 | 150 | 46 | 70.2 | 9.2 | 90.6 | 4.7 | 29.0 | 31.8 | | |
| SOUTH CAROLINA | | | | | | | | | | | | | | | | | | | | |
| CLIO | | | COKER 310 | | | | | | | | | | | | | | | | | |
| | SLM | 41 | 34 | 106 | 34 | 6.1 | 4.5 | 120 | 80 | 36 | 194 | 53 | 75.2 | 9.6 | 91.4 | 4.8 | 28.4 | 32.1 | | |
| | SLM | LT SP 42 | 33 | 93 | 28 | 5.5 | 4.2 | 110 | 70 | 18 | 274 | 44 | 69.1 | 9.0 | 90.3 | 4.6 | 28.4 | 31.9 | | |
| | LM | LT SP 52 | 33 | 77 | 27.1 | 4.6 | 4.0 | 80 | 60 | 50 | 260 | 41 | 65.8 | 9.0 | 88.9 | 4.4 | 29.2 | 31.1 | | |
| MISSOURI | | | | | | | | | | | | | | | | | | | | |
| KEWANEE | | | COKER 310 | | | | | | | | | | | | | | | | | |
| | SLM | 41 | 36 | 121 | 42 | 6.1 | 4.9 | 130 | 90 | 4 | 100 | 70 | 76.3 | 10.0 | 90.5 | 4.6 | 26.1 | 33.3 | | |
| | SLM | LT SP 42 | 36 | 95 | 29 | 5.8 | 4.5 | 130 | 80 | 12 | 58 | 49 | 73.7 | 9.7 | 90.5 | 4.5 | 27.1 | 32.6 | | |
| | LM | 51 | 36 | 100 | 31 | 6.0 | 4.3 | 120 | 90 | 12 | 124 | 51 | 74.4 | 9.1 | 90.8 | 4.4 | 26.8 | 32.9 | | |
| WEST TEXAS | | | | | | | | | | | | | | | | | | | | |
| EL PASO | | | ACALA 1517-75 | | | | | | | | | | | | | | | | | |
| | M | 31 | 37 | 139 | 52 | 6.3 | 5.4 | 110 | 90 | 32 | 102 | 95 | 88.6 | 8.7 | 91.9 | 4.8 | 27.6 | 32.6 | | |
| | LM+ | 50 | 37 | 138 | 52 | 7.0 | 5.9 | 120 | 70 | 30 | 194 | 99 | 71.9 | 9.0 | 90.9 | 4.9 | 30.6 | 30.2 | | |

1/1 END BREAKAGE TOO HIGH TO SPIN 50s YARN. 1/4s YARN SPUN AND STRENGTH ADJUSTED TO THE EQUIVALENT OF 50s.

TABLE 7A.--COTTON: AMERICAN UPLAND LONG STAPLE COMBED YARN QUALITY CHARACTERISTICS BY PRODUCTION AREA AND CLASSIFICATION, CROP OF 1980.

| PRODUCTION AREA | | COMBER | | YARN SKEIN STRENGTH | | | YARN ELONGATION | | | YARN APPEARANCE | | | YARN NEPS | | |
|--------------------|------|----------|------|---------------------|------|------|-----------------|------|------|-----------------|-------|-------|-----------|-----|-----|
| AND CLASSIFICATION | | WASTE | | : AVERAGE | | | : 50s | | | : 22s | | | : AVERAGE | | |
| GRADE : STAPLE | | | | : 50s | | | : 22s | | | : 50s | | | : 22s | | |
| NAME | CODE | 32ND IN. | PCT. | LBS. | LBS. | NO. | PCT. | PCT. | PCT. | INDEX | INDEX | INDEX | NO. | NO. | NO. |
| GEORGIA | | | | | | | | | | | | | | | |
| MADISON | | | | | | | | | | | | | | | |
| COKER 310 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 33 | 20.1 | 122 | 40 | 2342 | 6.3 | 5.0 | 130 | 110 | 120 | 20 | 270 | | |
| SLM LT SP | 42 | 33 | 20.6 | 110 | 37 | 2135 | 6.0 | 5.0 | 130 | 120 | 125 | 18 | 196 | | |
| SLM SP | 43 | 34 | 20.1 | 111 | 37 | 2146 | 5.3 | 4.2 | 130 | 120 | 125 | 42 | 124 | | |
| NORTH CAROLINA | | | | | | | | | | | | | | | |
| DUNN | | | | | | | | | | | | | | | |
| COKER 310 | | | | | | | | | | | | | | | |
| SLM LT SP | 42 | 34 | 17.3 | 128 | 45 | 2533 | 6.5 | 5.5 | 130 | 100 | 115 | 30 | 236 | | |
| SLM LT SP | 52 | 35 | 18.3 | 118 | 43 | 2373 | 6.4 | 5.2 | 120 | 100 | 110 | 32 | 126 | | |
| SLM LT SP | 42 | 34 | 19.0 | 118 | 39 | 2273 | 6.0 | 4.7 | 130 | 90 | 110 | 38 | 372 | | |
| SOUTH CAROLINA | | | | | | | | | | | | | | | |
| CLIO | | | | | | | | | | | | | | | |
| COKER 310 | | | | | | | | | | | | | | | |
| SLM | 41 | 34 | 18.7 | 130 | 45 | 2555 | 6.7 | 5.2 | 130 | 110 | 120 | 28 | 184 | | |
| SLM LT SP | 42 | 33 | 21.7 | 121 | 41 | 2356 | 6.3 | 4.9 | 130 | 120 | 125 | 16 | 228 | | |
| LM LT SP | 52 | 33 | 20.6 | 108 | 36 | 2088 | 5.6 | 4.1 | 120 | 80 | 100 | 42 | 420 | | |
| MISSOURI | | | | | | | | | | | | | | | |
| KEWANEE | | | | | | | | | | | | | | | |
| COKER 310 | | | | | | | | | | | | | | | |
| SLM | 41 | 36 | 16.1 | 141 | 51 | 2826 | 6.7 | 5.5 | 130 | 130 | 130 | 24 | 104 | | |
| SLM LT SP | 42 | 36 | 18.3 | 122 | 42 | 2392 | 6.4 | 5.3 | 130 | 130 | 130 | 18 | 52 | | |
| LM | 51 | 36 | 18.4 | 126 | 46 | 2536 | 6.4 | 5.2 | 130 | 110 | 120 | 16 | 174 | | |
| WEST TEXAS | | | | | | | | | | | | | | | |
| EL PASO | | | | | | | | | | | | | | | |
| ACALA 1517-75 | | | | | | | | | | | | | | | |
| M | 31 | 37 | 16.3 | 159 | 58 | 3199 | 6.5 | 5.4 | 130 | 120 | 125 | 16 | 118 | | |
| LM+ | 50 | 37 | 14.2 | 158 | 58 | 3188 | 7.5 | 6.0 | 130 | 100 | 115 | 32 | 186 | | |

TABLE 8.--COTTON: AMERICAN PIMA EXTRA LONG STAPLE FIBER AND YARN QUALITY CHARACTERISTICS BY PRODUCTION AREA AND CLASSIFICATION, CROP OF 1980.

| PRODUCTION AREA | | ARRAY | | MICRO-NAIRE | | FIBER STRENGTH | | 1/8" ELONGATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | | COMBER WASTE | |
|----------------------|----------|--|------|-------------|------|----------------------|------|-----------------|------|---------------------------------|-------|--------------------|------|---------------------|------|--------------|------|
| AND CLASSIFICATION | | UPPER : QUARTILE : COEFF. OF VAR. : LENGTH : OF VAR. : | | NAIRE | | ZERO : GAGE : GAGE : | | GATION | | VISIBLE : TOTAL WASTE : WASTE : | | : +b : CODE : | | PCT. WASTE | | PCT. WASTE | |
| NAME | 32ND IN. | IN. | PCT. | RDG. | MPSI | G/TEX | PCT. | PCT. | PCT. | PCT. | UNITS | NO. | PCT. | PCT. | PCT. | PCT. | PCT. |
| WEST ARIZONA PHOENIX | | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | | |
| 3 | 46 | 1.46 | 29 | 42 | 102 | 35 | 6.8 | 1.1 | 2.5 | 72.4 | 10.7 | - | 6.5 | 15.4 | | | |
| 3 | 46 | 1.51 | 26 | 42 | 112 | 38 | 6.1 | 1.3 | 3.4 | 72.0 | 9.8 | - | 7.0 | 14.2 | | | |
| 3 | 46 | 1.50 | 29 | 39 | 104 | 37 | 7.2 | 1.3 | 3.4 | 72.0 | 10.9 | - | 7.7 | 14.8 | | | |
| SAFFORD | | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | | |
| 3 | 46 | 1.54 | 31 | 39 | 101 | 37 | 8.0 | 1.5 | 2.6 | 69.4 | 11.2 | - | 8.8 | 15.8 | | | |
| 3 | 46 | 1.54 | 30 | 42 | 101 | 36 | 7.0 | 1.6 | 2.9 | 70.0 | 11.0 | - | 7.4 | 14.9 | | | |
| 4 | 48 | 1.55 | 29 | 42 | 109 | 35 | 6.9 | 2.5 | 5.0 | 70.0 | 11.4 | - | 8.3 | 15.5 | | | |
| NEW MEXICO MESQUITE | | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | | |
| 3 | 46 | 1.55 | 31 | 37 | 98 | 35 | 7.5 | 0.8 | 1.9 | 70.0 | 11.4 | - | 6.9 | 14.6 | | | |
| 3 | 46 | 1.57 | 30 | 36 | 104 | 35 | 7.4 | 1.1 | 2.6 | 69.0 | 10.9 | - | 6.7 | 14.5 | | | |
| 3 | 46 | 1.54 | 31 | 34 | 105 | 33 | 7.1 | 1.1 | 2.9 | 70.0 | 11.0 | - | 8.0 | 15.6 | | | |
| WEST TEXAS ANTHONY | | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | | |
| 4 | 46 | 1.54 | 35 | 39 | 95 | 33 | 7.3 | 1.9 | 3.7 | 69.0 | 11.7 | - | 9.0 | 15.1 | | | |
| 4 | 46 | 1.54 | 31 | 35 | 104 | 33 | 7.4 | 1.6 | 4.3 | 68.3 | 11.3 | - | 8.3 | 15.9 | | | |
| 4 | 46 | 1.54 | 32 | 31 | 105 | 34 | 6.9 | 2.6 | 5.2 | 70.0 | 10.8 | - | 9.3 | 16.3 | | | |
| FABENS | | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | | |
| 4 | 46 | 1.53 | 31 | 35 | 102 | 36 | 7.6 | 1.0 | 2.6 | 69.3 | 10.9 | - | 8.0 | 16.3 | | | |
| 4 | 46 | 1.50 | 32 | 36 | 97 | 34 | 7.6 | 1.3 | 4.4 | 70.3 | 11.0 | - | 7.4 | 15.1 | | | |
| 3 | 46 | 1.54 | 31 | 36 | 103 | 35 | 7.4 | 1.3 | 3.5 | 71.1 | 11.2 | - | 8.2 | 15.9 | | | |

TABLE 8.--CONTINUED

| PRODUCTION AREA AND CLASSIFICATION | YARN PROPERTIES | | | | | | | | | | COLOR OF FINISHER DRAWING SLIVER | | | | | |
|---------------------------------------|-----------------|------|------------|------|------------|-------|-----------|------|---------|-------|----------------------------------|-------|---------|-------|-------|-------|
| | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | GRAY | | BLEACHED | | DYED | | | |
| | 50s : 80s | PCT. | 50s : 80s | PCT. | 50s : 80s | PCT. | 50s : 80s | PCT. | Rd : +b | PCT. | Rd : +b | PCT. | Rd : -b | PCT. | UNITS | UNITS |
| NAME | 32ND IN. | LBS. | LBS. | PCT. | INDEX | INDEX | NO. | NO. | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS | PCT. | UNITS |
| WEST ARIZONA PHOENIX | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | |
| 3 | 46 | 70 | 37 | 5.7 | 5.1 | 130 | 130 | 54 | 74.2 | 11.5 | 91.9 | 6.8 | 29.0 | 30.7 | | |
| 3 | 46 | 74 | 40 | 5.1 | 5.8 | 130 | 120 | 66 | 69.4 | 10.8 | 90.2 | 6.1 | 27.9 | 31.4 | | |
| 3 | 46 | 71 | 38 | 5.1 | 4.8 | 130 | 100 | 152 | 73.9 | 11.6 | 91.0 | 6.7 | 28.0 | 31.3 | | |
| SAFFORD | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | |
| 3 | 46 | 67 | 35 | 5.7 | 5.1 | 120 | 120 | 56 | 71.5 | 12.1 | 91.2 | 6.1 | 28.2 | 30.8 | | |
| 3 | 46 | 68 | 36 | 6.0 | 5.1 | 120 | 120 | 40 | 72.0 | 11.9 | 91.3 | 7.1 | 28.6 | 30.7 | | |
| 4 | 48 | 68 | 36 | 5.8 | 4.9 | 120 | 110 | 96 | 66.9 | 11.7 | 90.0 | 6.8 | 29.2 | 30.1 | | |
| NEW MEXICO MESQUITE | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | |
| 3 | 46 | 67 | 34 | 5.8 | 5.3 | 120 | 120 | 114 | 71.6 | 11.7 | 90.1 | 6.5 | 28.8 | 30.9 | | |
| 3 | 46 | 68 | 34 | 6.3 | 5.3 | 120 | 110 | 94 | 71.4 | 11.8 | 90.8 | 6.8 | 30.0 | 29.5 | | |
| 3 | 46 | 65 | 36 | 6.2 | 5.3 | 130 | 110 | 66 | 66.3 | 11.8 | 89.7 | 5.0 | 27.7 | 32.1 | | |
| WEST TEXAS ANTHONY | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | |
| 4 | 46 | 67 | 34 | 5.8 | 5.7 | 130 | 130 | 34 | 70.6 | 12.2 | 90.7 | 6.1 | 28.4 | 30.7 | | |
| 4 | 46 | 69 | 36 | 6.4 | 5.5 | 110 | 110 | 52 | 71.2 | 12.1 | 90.7 | 7.2 | 29.3 | 29.8 | | |
| 4 | 46 | 67 | 36 | 6.0 | 5.0 | 110 | 100 | 142 | 65.5 | 12.2 | 89.6 | 6.7 | 29.0 | 29.6 | | |
| FABENS | | | | | | | | | | | | | | | | |
| PIMA S-5 | | | | | | | | | | | | | | | | |
| 4 | 46 | 67 | 35 | 6.0 | 5.2 | 120 | 120 | 102 | 71.2 | 11.9 | 89.9 | 6.7 | 30.1 | 29.9 | | |
| 4 | 46 | 66 | 35 | 5.9 | 5.2 | 120 | 110 | 74 | 71.9 | 11.8 | 91.8 | 6.8 | 28.4 | 30.5 | | |
| 3 | 46 | 68 | 36 | 6.4 | 5.4 | 110 | 100 | 94 | 67.9 | 11.5 | 90.4 | 6.1 | 29.0 | 30.3 | | |

TABLE 9.--COTTON: MEANS AND STANDARD DEVIATIONS OF TEST MEASUREMENTS PERFORMED ON 428 SAMPLES COLLECTED AT TRIWEEKLY INTERVALS FROM SELECTED GIN POINTS, CROP OF 1980.

| TEST ITEM | 104 SHORT STAPLE SAMPLES | | | 295 MEDIUM STAPLE SAMPLES | | | 14 LONG STAPLE SAMPLES | | | 15 EXTRA LONG STAPLE SAMPLES | | |
|------------------------------|-----------------------------|-----------------------|--|------------------------------|-----------------------|--|---------------------------|-----------------------|--|---------------------------------|-----------------------|-------|
| | MEAN | STANDARD DEVIATION | | MEAN | STANDARD DEVIATION | | MEAN | STANDARD DEVIATION | | MEAN | STANDARD DEVIATION | |
| FIBER PROPERTIES: | | | | | | | | | | | | |
| CLASSIFICATION: | | | | | | | | | | | | |
| GRADE ----- INDEX | 88.0 | 6.5 | | 92.6 | 6.9 | | 88.6 | 5.4 | | - | | |
| STAPLE ----- 32ND IN. | 31.1 | 1.2 | | 34.3 | 1.6 | | 34.6 | 1.5 | | 46.1 | | 0.5 |
| FIBER LENGTH: | | | | | | | | | | | | |
| 2.5% SPAN ----- IN. | 0.978 | 0.034 | | 1.075 | 0.046 | | 1.086 | 0.052 | | 1.395 | | 0.023 |
| 50/2.5 UNIF. ----- PCT. | 43.8 | 1.5 | | 43.8 | 1.6 | | 43.9 | 1.3 | | 45.9 | | 1.8 |
| UPPER QUARTILE LENGTH -- IN. | - | - | | - | - | | - | - | | 1.530 | | 0.027 |
| COEFF. OF VAR. ----- PCT. | - | - | | - | - | | - | - | | 30.5 | | 2.0 |
| MICRONAIRE ----- RDG. | | | | | | | | | | | | |
| | 41.5 | 3.2 | | 44.1 | 4.4 | | 43.4 | 3.3 | | 37.7 | | 3.4 |
| FIBER STRENGTH: | | | | | | | | | | | | |
| ZERO GAGE ----- MPSI | 87.6 | 4.3 | | 90.9 | 5.1 | | 90.8 | 2.4 | | 102.8 | | 4.3 |
| 1/8" GAGE ----- G/TEX | 21.4 | 1.4 | | 23.6 | 2.0 | | 23.8 | 1.7 | | 35.1 | | 1.5 |
| ELONGATION (1/8") ----- PCT. | 6.18 | 0.67 | | 5.81 | 0.60 | | 5.79 | 0.37 | | 7.21 | | 0.45 |
| SHIRLEY ANALYZER: | | | | | | | | | | | | |
| VISIBLE WASTE ----- PCT. | 2.98 | 0.95 | | 2.06 | 1.00 | | 2.32 | 0.61 | | 1.47 | | 0.52 |
| TOTAL WASTE ----- PCT. | 4.59 | 1.22 | | 3.14 | 1.07 | | 3.33 | 0.85 | | 3.39 | | 0.97 |
| COLOR OF RAW STOCK: | | | | | | | | | | | | |
| GRAYNESS (Rd) ----- PCT. | 72.78 | 2.75 | | 75.42 | 4.36 | | 70.57 | 4.63 | | 70.19 | | 1.20 |
| YELLOWNESS (+b) ----- UNITS | 9.67 | 0.61 | | 8.81 | 0.75 | | 9.20 | 0.80 | | 11.01 | | 0.43 |

TABLE 9.---CONTINUED

| TEST ITEM | 104 SHORT | | | 295 MEDIUM | | | 14 LONG | | | 15 EXTRA LONG | | |
|------------------------------|----------------|------|-------------------------|----------------|-------|-------------------------|----------------|-------|-------------------------|----------------|------|-------------------------|
| | STAPLE SAMPLES | MEAN | STANDARD : DEVIATION | STAPLE SAMPLES | MEAN | STANDARD : DEVIATION | STAPLE SAMPLES | MEAN | STANDARD : DEVIATION | STAPLE SAMPLES | MEAN | STANDARD : DEVIATION |
| MANUFACTURING WASTE: | | | | | | | | | | | | |
| TOTAL WASTE----- | | 7.85 | 1.14 | | 7.04 | 1.12 | | 8.55 | 0.95 | 7.83 | 0.85 | |
| COMBER WASTE----- | | | | | | | | 18.55 | 2.06 | 15.33 | 0.65 | |
| PCT. | | | | | | | | | | | | |
| PCT. | | | | | | | | | | | | |
| CARDER YARN DATA: | | | | | | | | | | | | |
| YARN SKEIN STRENGTH: | | | | | | | | | | | | |
| 8s (74 TEX)----- | 296.2 | 22.2 | | | 105.1 | 15.3 | | 99.9 | 20.2 | | | |
| 22s (27 TEX)----- | 94.5 | 8.4 | | | 35.2 | 7.1 | | 33.2 | 9.0 | | | |
| 50s (12 TEX)----- | | | | | | | | | | | | |
| LBS. | | | | | | | | | | | | |
| LBS. | | | | | | | | | | | | |
| YARN ELONGATION: | | | | | | | | | | | | |
| 8s (74 TEX)----- | 7.38 | 0.74 | | | 6.03 | 0.51 | | 5.67 | 0.67 | | | |
| 22s (27 TEX)----- | 6.40 | 0.58 | | | 4.80 | 0.44 | | 4.58 | 0.55 | | | |
| 50s (12 TEX)----- | | | | | | | | | | | | |
| PCT. | | | | | | | | | | | | |
| PCT. | | | | | | | | | | | | |
| YARN APPEARANCE: | | | | | | | | | | | | |
| 8s (74 TEX)----- | 117.7 | 7.3 | | | 88.5 | 13.9 | | 111.4 | 13.5 | | | |
| 22s (27 TEX)----- | 110.8 | 8.6 | | | 64.5 | 6.8 | | 75.7 | 10.2 | | | |
| 50s (12 TEX)----- | | | | | | | | | | | | |
| INDEX | | | | | | | | | | | | |
| INDEX | | | | | | | | | | | | |
| INDEX | | | | | | | | | | | | |
| YARN NEPS: | | | | | | | | | | | | |
| 8s (74 TEX)----- | 6.9 | 6.0 | | | 83.7 | 42.7 | | 22.9 | 13.2 | | | |
| 22s (27 TEX)----- | 34.9 | 19.1 | | | 341.0 | 137.0 | | 156.1 | 70.1 | | | |
| 50s (12 TEX)----- | | | | | | | | | | | | |
| NO. | | | | | | | | | | | | |
| NO. | | | | | | | | | | | | |
| NO. | | | | | | | | | | | | |
| SPINNING POTENTIAL ----- NO. | | | | | | | | | | | | |
| | 43.8 | 7.9 | | | 53.3 | 13.2 | | 55.8 | 19.2 | | | |

TABLE 9. --CONTINUED

| TEST ITEM | 104 SHORT STAPLE SAMPLES | | 295 MEDIUM STAPLE SAMPLES | | 14 LONG STAPLE SAMPLES | | 15 EXTRA LONG STAPLE SAMPLES | |
|--------------|-----------------------------|---------------------------|------------------------------|---------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|
| | MEAN | : STANDARD : DEVIATION | MEAN | : STANDARD : DEVIATION | MEAN | : STANDARD : DEVIATION | MEAN | : STANDARD : DEVIATION |

COMBED YARN DATA:

YARN SKEIN STRENGTH:

22s (27 TEX) ----- LBS.
50s (12 TEX) ----- LBS.
80s (7.4 TEX) ----- LBS.

YARN ELONGATION:

22s (27 TEX) ----- PCT.
50s (12 TEX) ----- PCT.
80s (7.4 TEX) ----- PCT.

YARN APPEARANCE:

22s (27 TEX) ----- INDEX
50s (12 TEX) ----- INDEX
80s (7.4 TEX) ----- INDEX

YARN NEPS:

22s (27 TEX) ----- NO.
50s (12 TEX) ----- NO.
80s (7.4 TEX) ----- NO.

COLOR OF FINISHER DRAWING SLIVER:

GRAY:

REFLECTANCE (Rd) ----- PCT.
YELLOWNESS (+b) ----- UNITS

BLEACHED:

REFLECTANCE (Rd) ----- PCT.
YELLOWNESS (+b) ----- UNITS

DYED:

REFLECTANCE (Rd) ----- PCT.
BLUENESS (-b) ----- UNITS

| | | | |
|-------|-------|-------|-------|
| 126.6 | 16.0 | 68.1 | |
| 44.1 | 7.1 | 35.9 | 2.2 |
| | | | 1.6 |
| 6.33 | 0.52 | | |
| 5.09 | 0.51 | 5.88 | 0.39 |
| | | 5.25 | 0.27 |
| 128.6 | 3.6 | | |
| 110.0 | 14.7 | 121.3 | 7.4 |
| | | 114.0 | 9.9 |
| 26.6 | 9.7 | | |
| 199.3 | 102.0 | 82.4 | 35.3 |
| | | 249.7 | 134.9 |
| 72.64 | 5.59 | 70.37 | 2.63 |
| 9.61 | 0.64 | 11.77 | 0.35 |
| 90.66 | 0.79 | 90.62 | 0.72 |
| 4.90 | 0.52 | 6.50 | 0.55 |
| 28.21 | 1.36 | 28.77 | 0.71 |
| 31.96 | 0.95 | 30.55 | 0.72 |

TABLE 10.--COTTON: SIMPLE CORRELATION ANALYSIS FOR FIBER AND PROCESSING TEST RESULTS FROM 104 SHORT STAPLE SAMPLES COLLECTED AT TRIWEEKLY INTERVALS FROM SELECTED GIN POINTS, CROP OF 1980.

| TEST ITEM | CLASSIFICATION | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | | |
|---------------------------------------|----------------|-----------------|--------|-----------------|-------------------|-----------------|----------------------|-----------------------------|--------------|-----------------------|----------------|---------------------------|----|----|
| | | GRADE | STAPLE | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO GAGE | 1/8" GAGE | VISIBLE WASTE | TOTAL WASTE | | Rd | +b |
| | | | | | | | | | | | | | | |
| SIMPLE CORRELATION COEFFICIENTS (r's) | | | | | | | | | | | | | | |
| CLASSIFICATION: | | | | | | | | | | | | | | |
| GRADE | INDEX | +1.00 | - .23 | + .27 | + .13 | + .39 | - .21 | - .28 | - .67 | + .62 | - .09 | - .55 | | |
| STAPLE | 32ND IN. | - .30 | + .73 | - .16 | - .32 | - .44 | + .57 | + .39 | + .31 | + .01 | - .40 | + .04 | | |
| FIBER LENGTH: | | | | | | | | | | | | | | |
| 2.5% SPAN | IN. | - .23 | + 1.00 | - .10 | - .32 | - .39 | + .57 | + .33 | + .25 | + .05 | - .35 | + .02 | | |
| 50/2.5 UNIF. | PCT. | + .27 | - .10 | + 1.00 | + .18 | + .28 | + .17 | - .05 | - .13 | + .34 | + .02 | - .06 | | |
| MICRONAIRE | RDG. | + .13 | - .32 | + .18 | + 1.00 | + .42 | - .19 | - .38 | - .12 | - .15 | + .19 | + .05 | | |
| FIBER STRENGTH: | | | | | | | | | | | | | | |
| ZERO GAGE | MPSI | + .39 | - .39 | + .28 | + .42 | + 1.00 | - .22 | - .77 | - .21 | + .17 | + .15 | - .16 | | |
| 1/8" GAGE | G/TEX | - .21 | + .57 | + .17 | - .19 | - .22 | + 1.00 | + .32 | + .28 | + .10 | - .30 | + .10 | | |
| ELONGATION (1/8") | PCT. | - .28 | + .33 | - .05 | - .38 | - .77 | + .32 | + 1.00 | + .18 | - .04 | - .18 | + .14 | | |
| SHIRLEY ANALYZER: | | | | | | | | | | | | | | |
| VISIBLE WASTE | PCT. | - .67 | + .25 | - .13 | - .12 | - .21 | + .28 | + .18 | + 1.00 | - .28 | - .13 | + .78 | | |
| TOTAL WASTE | PCT. | - .64 | + .30 | - .22 | - .15 | - .37 | + .30 | + .32 | + .90 | - .33 | - .19 | + .78 | | |
| COLOR OF RAW STOCK: | | | | | | | | | | | | | | |
| GRAYNESS (Rd) | PCT. | + .62 | + .05 | + .34 | - .15 | + .17 | + .10 | - .04 | - .28 | + 1.00 | - .38 | - .32 | | |
| YELLOWNESS (+b) | UNITS | - .09 | - .35 | + .02 | + .19 | + .15 | - .30 | - .18 | - .13 | - .38 | + 1.00 | + .04 | | |
| PICKER AND CARD WASTE: | | | | | | | | | | | | | | |
| PCT. | PCT. | - .55 | + .02 | - .06 | + .05 | - .16 | + .10 | + .14 | + .78 | - .32 | + .04 | + 1.00 | | |
| YARN STRENGTH: | | | | | | | | | | | | | | |
| 8s (74 TEX) | LBS. | - .18 | + .67 | - .04 | - .51 | - .39 | + .58 | + .39 | + .19 | + .24 | - .42 | - .14 | | |
| 22s (27 TEX) | LBS. | - .20 | + .68 | - .01 | - .43 | - .31 | + .64 | + .30 | + .20 | + .21 | - .46 | - .13 | | |
| YARN ELONGATION: | | | | | | | | | | | | | | |
| 8s (74 TEX) | PCT. | - .23 | + .49 | - .21 | - .56 | - .65 | + .31 | + .59 | + .12 | + .02 | - .28 | - .07 | | |
| 22s (27 TEX) | PCT. | - .25 | + .48 | - .18 | - .51 | - .64 | + .35 | + .60 | + .14 | + .06 | - .26 | - .11 | | |
| YARN APPEARANCE: | | | | | | | | | | | | | | |
| 8s (74 TEX) | INDEX | + .14 | + .08 | + .19 | + .15 | + .13 | + .13 | - .07 | - .09 | + .18 | - .30 | - .06 | | |
| 22s (27 TEX) | INDEX | + .09 | - .06 | + .23 | + .14 | + .16 | - .00 | - .20 | - .17 | + .14 | - .24 | - .18 | | |
| YARN NEPS: | | | | | | | | | | | | | | |
| 8s (74 TEX) | NO. | + .02 | - .06 | + .11 | - .07 | + .11 | - .03 | + .04 | - .01 | + .05 | + .09 | + .02 | | |
| 22s (27 TEX) | NO. | + .08 | - .14 | + .05 | + .10 | + .16 | - .19 | - .07 | - .09 | - .08 | + .31 | + .11 | | |
| SPINNING POTENTIAL | | | | | | | | | | | | | | |
| NO. | NO. | - .30 | + .78 | - .12 | - .46 | - .49 | + .56 | + .43 | + .21 | + .09 | - .43 | - .07 | | |
| COLOR OF FINISHER DRAWING SLIVER: | | | | | | | | | | | | | | |
| GRAY: | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | + .35 | + .12 | + .34 | - .25 | + .10 | + .08 | + .02 | - .00 | + .61 | - .41 | - .18 | | |
| YELLOWNESS (+b) | UNITS | - .31 | - .15 | - .08 | + .17 | + .08 | - .20 | + .19 | + .04 | - .54 | + .74 | + .21 | | |
| BLEACHED: | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | + .26 | + .22 | + .35 | - .36 | - .00 | + .09 | + .02 | - .09 | + .47 | - .14 | - .19 | | |
| YELLOWNESS (+b) | UNITS | - .11 | - .18 | - .13 | + .43 | + .16 | - .09 | - .16 | + .03 | - .41 | + .28 | + .25 | | |
| DYED: | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | - .27 | + .32 | - .19 | - .27 | - .30 | + .25 | + .30 | + .28 | + .04 | - .36 | + .09 | | |
| BLUENESS (-b) | UNITS | + .28 | - .24 | + .18 | + .13 | + .24 | - .20 | - .23 | - .30 | + .08 | + .29 | - .14 | | |

TABLE 10.--CONTINUED

| TEST ITEM | YARN PROPERTIES | | | | | | | | | | COLOR FINISHER DRAWING SLIVER | | | | | |
|--------------------------|---------------------------------------|-------|------------|-------|------------|-------|----------|-------|------------|---------|-------------------------------|----------|-------|-------|-------|--|
| | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | | SPY No. | GRAY | | BLEACHED | | DYED | | |
| | 8s : 22s | 22s | 8s : 22s | 22s | 8s : 22s | 22s | 8s : 22s | 22s | | Rd : +b | Rd : +b | Rd : -b | | | | |
| | SIMPLE CORRELATION COEFFICIENTS (r's) | | | | | | | | | | | | | | | |
| CLASSIFICATION: | | | | | | | | | | | | | | | | |
| GRADE | -18 | -20 | -23 | -25 | +14 | +09 | +02 | +08 | -30 | +35 | -31 | +26 | -11 | -27 | +28 | |
| STAPLE | +75 | +75 | +56 | +54 | +12 | -03 | -23 | -32 | +77 | +01 | -24 | +04 | -22 | +42 | -34 | |
| FIBER LENGTH: | | | | | | | | | | | | | | | | |
| 2.5% SPAN | +67 | +68 | +49 | +48 | +08 | -06 | -06 | -14 | +78 | +12 | -15 | +22 | -18 | +32 | -24 | |
| 50/2.5 UNIF. | -04 | -01 | -21 | -18 | +19 | +23 | +11 | +05 | -12 | +34 | -08 | +35 | -13 | -19 | +18 | |
| MICRONAIRE | -51 | -43 | -56 | -51 | +15 | +14 | -07 | +10 | -46 | -25 | +17 | -36 | +43 | -27 | +13 | |
| FIBER STRENGTH: | | | | | | | | | | | | | | | | |
| ZERO GAGE | -39 | -31 | -65 | -64 | +13 | +16 | +11 | +16 | -49 | +10 | +08 | -00 | +16 | -30 | +24 | |
| 1/8" GAGE | +58 | +64 | +31 | +35 | +13 | -00 | -03 | -19 | +56 | +08 | -20 | +09 | -09 | +25 | -20 | |
| ELONGATION (1/8") - PCT. | +39 | +30 | +59 | +60 | -07 | -20 | +04 | -07 | +43 | +02 | -19 | +02 | -16 | +30 | -23 | |
| SHIRLEY ANALYZER: | | | | | | | | | | | | | | | | |
| VISIBLE WASTE | +19 | +20 | +12 | +14 | -09 | -17 | -01 | -09 | +21 | -00 | +04 | -09 | +03 | +28 | -28 | |
| TOTAL WASTE | +25 | +25 | +23 | +23 | -14 | -18 | -03 | -11 | +28 | -17 | -00 | -20 | +10 | +28 | -30 | |
| COLOR OF RAW STOCK: | | | | | | | | | | | | | | | | |
| GRAYNESS (Rd) | +24 | +21 | +02 | +06 | +18 | +14 | +05 | -08 | +09 | +61 | -54 | +47 | -41 | +04 | +08 | |
| YELLOWNESS (+b) - UNITS | -42 | -46 | -28 | -26 | -30 | -24 | +09 | +31 | -43 | -41 | +74 | -14 | +28 | -36 | +29 | |
| PICKER AND | | | | | | | | | | | | | | | | |
| CARD WASTE | -14 | -13 | -07 | -11 | -06 | -18 | +02 | +11 | -07 | -18 | +21 | -19 | +25 | +09 | -14 | |
| YARN STRENGTH: | | | | | | | | | | | | | | | | |
| 8s (74 TEX) | +1.00 | +93 | +75 | +74 | +08 | +08 | -15 | -37 | +90 | +23 | -35 | +28 | -37 | +40 | -28 | |
| 22s (27 TEX) | +93 | +1.00 | +65 | +68 | +10 | +06 | -14 | -33 | +88 | +20 | -33 | +25 | -29 | +40 | -27 | |
| YARN ELONGATION: | | | | | | | | | | | | | | | | |
| 8s (74 TEX) | +75 | +65 | +1.00 | +91 | -06 | -11 | -17 | -29 | +70 | +07 | -21 | +14 | -23 | +41 | -33 | |
| 22s (27 TEX) | +74 | +68 | +91 | +1.00 | -11 | -10 | -07 | -22 | +69 | +06 | -20 | +16 | -28 | +34 | -23 | |
| YARN APPEARANCE: | | | | | | | | | | | | | | | | |
| 8s (74 TEX) | +08 | +10 | -06 | -11 | +1.00 | +31 | -17 | -13 | +10 | +29 | -26 | +15 | +03 | -02 | -02 | |
| 22s (27 TEX) | +08 | +06 | -11 | -10 | +31 | +1.00 | -03 | -21 | +07 | +12 | -29 | +01 | -06 | -13 | +07 | |
| YARN NEPS: | | | | | | | | | | | | | | | | |
| 8s (74 TEX) | -15 | -14 | -17 | -07 | -17 | -03 | +1.00 | +61 | -14 | +05 | +03 | +15 | -03 | -09 | +10 | |
| 22s (27 TEX) | -37 | -33 | -29 | -22 | -13 | -21 | +61 | +1.00 | -29 | -19 | +26 | +04 | +08 | -26 | +24 | |
| SPINNING POTENTIAL | +90 | +88 | +70 | +69 | +10 | +07 | -14 | -29 | +1.00 | +14 | -27 | +25 | -31 | +43 | -32 | |
| COLOR OF FINISHER | | | | | | | | | | | | | | | | |
| DRAWING SLIVER: | | | | | | | | | | | | | | | | |
| GRAY: | | | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) - PCT. | +23 | +20 | +07 | +06 | +29 | +12 | +05 | -19 | +14 | +1.00 | -45 | +61 | -49 | +17 | -04 | |
| YELLOWNESS (+b) - UNITS | -35 | -33 | -21 | -20 | -26 | -29 | +03 | +26 | -27 | -45 | +1.00 | -16 | +35 | -26 | +18 | |
| BLEACHED: | | | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) - PCT. | +28 | +25 | +14 | +16 | +15 | +01 | +15 | +04 | +25 | +61 | -16 | +1.00 | -62 | +03 | +14 | |
| YELLOWNESS (+b) - UNITS | -37 | -29 | -23 | -28 | +03 | -06 | -03 | +08 | -31 | -49 | +35 | -62 | +1.00 | -06 | -19 | |
| DYED: | | | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) - PCT. | +40 | +40 | +41 | +34 | -02 | -13 | -09 | -26 | +43 | +17 | -26 | +03 | -06 | +1.00 | -92 | |
| BLUENESS (-b) - UNITS | -28 | -27 | -33 | -23 | -02 | +07 | +10 | +24 | -32 | -04 | +18 | +14 | -19 | -92 | +1.00 | |

TABLE 11.--COTTON: SIMPLE CORRELATION ANALYSIS FOR FIBER AND PROCESSING TEST RESULTS FROM 295 MEDIUM STAPLE SAMPLES
COLLECTED AT TRIWEEKLY INTERVALS FROM SELECTED GIN POINTS, CROP OF 1980.

| TEST ITEM | CLASSIFICATION | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | PICKER & CARD WASTE | | | |
|---------------------------------------|----------------|-----------------|--------|-----------------|-------------------|-------------------|----------------------|----------------------|--------------------|-----------------------|------------|---------------------------|-------|-------|-------|
| | | GRADE : | STAPLE | | 2.5% : SPAN : | 50/2.5 UNIF. : | | VISIBLE : WASTE : | NONLINT WASTE : | TOTAL WASTE : | Rd : +b | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| SIMPLE CORRELATION COEFFICIENTS (r's) | | | | | | | | | | | | | | | |
| CLASSIFICATION: | | | | | | | | | | | | | | | |
| GRADE | INDEX | +1.00 | +30 | +1.00 | +30 | +28 | +19 | +0.00 | +1.13 | +0.40 | +0.14 | -0.71 | -0.68 | +0.83 | -0.24 |
| STAPLE | 32ND IN. | +30 | +1.00 | +0.91 | +0.05 | +0.91 | +0.05 | +0.41 | +0.51 | +0.59 | -0.14 | -0.26 | -0.31 | +0.27 | -0.58 |
| FIBER LENGTH: | | | | | | | | | | | | | | | |
| 2.5% SPAN | IN. | +28 | +0.91 | +1.00 | +0.09 | +0.99 | +1.00 | +0.33 | +0.47 | +0.64 | -0.07 | -0.22 | -0.28 | +0.25 | -0.55 |
| 50/2.5 UNIF. | PCT. | +19 | +0.05 | +0.09 | +1.00 | +0.99 | +1.00 | -0.12 | +0.17 | +0.38 | +0.03 | -0.01 | -0.12 | +0.16 | +0.21 |
| MICRONAIRE | RDG. | +0.00 | +0.41 | +0.33 | -0.12 | +0.33 | +1.00 | +1.00 | +0.30 | +0.04 | -0.26 | -0.12 | -0.21 | -0.14 | -0.14 |
| FIBER STRENGTH: | | | | | | | | | | | | | | | |
| ZERO GAGE | MPSI | +13 | +0.51 | +0.47 | +0.17 | +0.47 | +0.30 | +0.30 | +1.00 | +0.54 | -0.45 | -0.14 | -0.21 | +0.06 | -0.18 |
| 1/8" GAGE | G/TEX | +40 | +0.59 | +0.64 | +0.38 | +0.64 | +0.04 | +0.04 | +0.54 | +1.00 | +0.11 | -0.25 | -0.33 | +0.41 | -0.32 |
| ELONGATION (1/8") | PCT. | +14 | -0.14 | -0.07 | +0.03 | -0.07 | -0.26 | -0.26 | -0.45 | +0.11 | +1.00 | -0.07 | -0.01 | +0.25 | -0.01 |
| SHIRLEY ANALYZER: | | | | | | | | | | | | | | | |
| VISIBLE WASTE | PCT. | -71 | -0.26 | -0.22 | -0.01 | -0.22 | -0.12 | -0.12 | -0.14 | -0.25 | -0.07 | +1.00 | +0.85 | -0.53 | +0.15 |
| TOTAL WASTE | PCT. | -68 | -0.31 | -0.28 | -0.12 | -0.28 | -0.21 | -0.21 | -0.21 | -0.33 | -0.01 | +0.85 | +1.00 | -0.48 | +0.09 |
| COLOR OF RAW STOCK: | | | | | | | | | | | | | | | |
| GRAYNESS (Rd) | PCT. | +83 | +0.27 | +0.25 | +0.16 | +0.25 | -0.14 | -0.14 | +0.06 | +0.41 | +0.25 | -0.53 | -0.48 | +1.00 | -0.37 |
| YELLOWNESS (+b) | UNITS | -24 | -0.58 | -0.55 | +0.21 | -0.55 | -0.17 | -0.17 | -0.18 | -0.32 | -0.01 | +0.15 | +0.09 | -0.37 | +1.00 |
| PICKER AND CARD WASTE | | | | | | | | | | | | | | | |
| PCT. | PCT. | -62 | -0.38 | -0.40 | -0.18 | -0.40 | -0.14 | -0.14 | -0.21 | -0.44 | -0.13 | +0.66 | +0.73 | -0.48 | +0.21 |
| YARN STRENGTH: | | | | | | | | | | | | | | | |
| 22s (27 TEX) | LBS. | +45 | +0.60 | +0.67 | +0.48 | +0.67 | -0.13 | -0.13 | +0.43 | +0.81 | +0.12 | -0.23 | -0.28 | +0.49 | -0.33 |
| 50s (12 TEX) | LBS. | +44 | +0.60 | +0.67 | +0.47 | +0.67 | -0.12 | -0.12 | +0.44 | +0.81 | +0.12 | -0.25 | -0.29 | +0.48 | -0.34 |
| YARN ELONGATION: | | | | | | | | | | | | | | | |
| 22s (27 TEX) | PCT. | +30 | +0.22 | +0.34 | +0.31 | +0.34 | -0.20 | -0.20 | -0.07 | +0.38 | +0.52 | -0.09 | -0.13 | +0.40 | -0.12 |
| 50s (12 TEX) | PCT. | +34 | +0.23 | +0.32 | +0.34 | +0.32 | -0.23 | -0.23 | +0.06 | +0.49 | +0.46 | -0.19 | -0.22 | +0.45 | -0.10 |
| YARN APPEARANCE: | | | | | | | | | | | | | | | |
| 22s (27 TEX) | INDEX | -20 | -0.09 | -0.11 | +0.08 | -0.11 | +0.38 | +0.38 | +0.03 | -0.21 | -0.25 | +0.11 | +0.01 | -0.39 | +0.25 |
| 50s (12 TEX) | INDEX | -06 | -0.13 | -0.13 | +0.22 | -0.13 | +0.24 | +0.24 | -0.00 | -0.08 | -0.17 | +0.11 | +0.02 | -0.15 | +0.22 |
| YARN NEPS: | | | | | | | | | | | | | | | |
| 22s (27 TEX) | NO. | +02 | +0.32 | +0.36 | +0.04 | +0.36 | -0.15 | -0.15 | +0.19 | +0.40 | +0.05 | +0.02 | +0.05 | +0.18 | -0.19 |
| 50s (12 TEX) | NO. | +03 | +0.26 | +0.26 | -0.28 | +0.26 | +0.00 | +0.00 | +0.08 | +0.11 | +0.06 | -0.03 | +0.02 | +0.09 | -0.24 |
| SPINNING POTENTIAL | | | | | | | | | | | | | | | |
| NO. | NO. | +38 | +0.62 | +0.71 | +0.44 | +0.71 | -0.11 | -0.11 | +0.40 | +0.77 | +0.11 | -0.19 | -0.26 | +0.43 | -0.38 |
| COLOR OF FINISHER | | | | | | | | | | | | | | | |
| DRAWING SLIVER: | | | | | | | | | | | | | | | |
| GRAY: | | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | +56 | +0.27 | +0.27 | +0.18 | +0.27 | -0.11 | -0.11 | +0.11 | +0.33 | +0.09 | -0.31 | -0.35 | +0.64 | -0.38 |
| YELLOWNESS (+b) | UNITS | -34 | -0.55 | -0.50 | +0.22 | -0.50 | -0.24 | -0.24 | -0.14 | -0.28 | +0.02 | +0.24 | +0.21 | -0.39 | +0.83 |
| BLEACHED: | | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | +26 | +0.05 | +0.09 | -0.01 | +0.09 | -0.08 | -0.08 | -0.12 | +0.05 | +0.12 | -0.12 | -0.11 | +0.31 | -0.16 |
| YELLOWNESS (+b) | UNITS | -26 | -0.21 | -0.26 | +0.10 | -0.26 | -0.05 | -0.05 | +0.01 | -0.17 | -0.09 | +0.19 | +0.16 | -0.28 | +0.35 |
| DYED: | | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | -17 | -0.30 | -0.29 | -0.03 | -0.29 | -0.54 | -0.54 | -0.24 | -0.07 | +0.26 | +0.20 | +0.27 | +0.04 | +0.09 |
| BLUENESS (-b) | UNITS | +27 | +0.38 | +0.37 | -0.02 | +0.37 | +0.50 | +0.50 | +0.18 | +0.10 | -0.21 | -0.27 | -0.34 | +0.07 | -0.23 |

TABLE 11.--CONTINUED

| TEST ITEM | YARN PROPERTIES | | | | | | | | | | COLOR | | | | | | | | FINISHER DRAWING SLIVER | | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------|---------------|-----|---------------------|-----------|------------|-----|--------|-----|-----------|-------|--------|-----|--------|-----------|--------|-----|--------|-------------------------|--------|----------|--------|----|--------|-----|--------|-----|-------|--|-------|--|--------|--|-------|--|
| | STRENGTH | | | | | APPEARANCE | | | | | NEPS | | | | | GRAY | | | | | BLEACHED | | | | | DYED | | | | | | | | | |
| | 22s | | 50s | | 22s : 50s | 22s | | 50s | | 22s : 50s | 22s | | 50s | | 22s : 50s | Rd | | +b | | Rd | +b | | Rd | +b | | | | | | | | | | | |
| | 22s | 50s | 22s | 50s | | 22s | 50s | 22s | 50s | | 22s | 50s | 22s | 50s | | 22s | 50s | 22s | 50s | | 22s | 50s | | 22s | 50s | 22s | 50s | | | | | | | | |
| SIMPLE CORRELATION COEFFICIENTS (r's) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLASSIFICATION: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRADE | | INDEX | | 32ND IN. | | + .45 | | + .60 | | + .30 | | + .34 | | - .20 | | - .06 | | + .02 | | + .03 | | + .38 | | + .56 | | - .34 | | + .26 | | - .17 | | + .27 | | + .38 | |
| STAPLE | | 2.5% SPAN | | IN. | | + .67 | | + .47 | | + .34 | | + .32 | | + .11 | | - .13 | | + .36 | | + .26 | | + .71 | | + .27 | | - .50 | | + .09 | | - .29 | | + .37 | | | |
| FIBER LENGTH: | | 50/2.5 UNIF. | | PCT. | | + .48 | | + .12 | | + .31 | | + .34 | | + .08 | | + .22 | | + .04 | | - .28 | | + .44 | | + .18 | | + .22 | | + .10 | | - .03 | | + .50 | | | |
| MICRONAIRE | | RDC. | | FIBER STRENGTH: | | - .13 | | - .12 | | - .20 | | - .23 | | + .38 | | + .24 | | - .15 | | + .00 | | - .11 | | - .11 | | - .24 | | - .08 | | - .54 | | + .27 | | | |
| ZERO GAGE | | MPSI | | 1/8" CAGE | | + .43 | | + .81 | | - .07 | | + .06 | | + .03 | | - .00 | | + .19 | | + .08 | | + .40 | | + .11 | | - .12 | | + .01 | | - .24 | | + .18 | | | |
| ELONGATION (1/8") | | G/TEX | | PCT. | | + .12 | | + .12 | | + .52 | | + .46 | | - .25 | | - .17 | | + .05 | | + .06 | | + .11 | | + .09 | | + .12 | | - .09 | | + .26 | | - .21 | | | |
| SHIRLEY ANALYZER: | | VISIBLE WASTE | | PCT. | | - .23 | | - .25 | | - .09 | | - .19 | | + .11 | | + .11 | | + .02 | | - .03 | | - .19 | | - .31 | | + .19 | | + .20 | | - .27 | | - .34 | | | |
| TOTAL WASTE | | PCT. | | COLOR OF RAW STOCK: | | - .28 | | - .29 | | - .13 | | - .22 | | + .01 | | + .02 | | + .05 | | + .02 | | - .26 | | - .35 | | + .16 | | + .27 | | + .07 | | - .23 | | | |
| GRAYNESS (Rd) | | UNITS | | PICKER AND | | + .49 | | - .34 | | - .12 | | + .45 | | + .25 | | + .22 | | - .19 | | - .24 | | + .43 | | + .64 | | + .31 | | + .04 | | + .28 | | + .07 | | | |
| YELLOWNESS (+b) | | PCT. | | CARD WASTE | | - .33 | | - .48 | | - .35 | | - .36 | | + .07 | | + .02 | | - .02 | | + .02 | | - .38 | | - .43 | | + .16 | | + .09 | | - .22 | | - .28 | | | |
| YARN STRENGTH: | | LBS. | | 22s (27 TEX) | | + 1.00 | | + .98 | | + .56 | | + .58 | | - .25 | | - .08 | | + .37 | | + .06 | | + .96 | | + .43 | | + .16 | | + .01 | | + .04 | | + .04 | | | |
| 50s (12 TEX) | | LBS. | | YARN ELONGATION: | | + .98 | | + 1.00 | | + .52 | | + .60 | | - .29 | | - .11 | | + .40 | | + .09 | | + .95 | | + .43 | | + .16 | | + .04 | | + .01 | | + .01 | | | |
| 22s (27 TEX) | | PCT. | | 22s (27 TEX) | | + .56 | | + .52 | | + 1.00 | | + .77 | | - .07 | | - .04 | | + .13 | | + .03 | | + .54 | | + .29 | | + .19 | | + .04 | | + .12 | | - .06 | | | |
| 50s (12 TEX) | | PCT. | | YARN APPEARANCE: | | + .58 | | + .60 | | + .77 | | + 1.00 | | - .20 | | + .05 | | + .23 | | + .04 | | + .54 | | + .29 | | + .13 | | + .12 | | + .31 | | + .18 | | | |
| 22s (27 TEX) | | INDEX | | 22s (27 TEX) | | - .25 | | - .29 | | - .07 | | - .20 | | + 1.00 | | + .54 | | - .45 | | - .41 | | - .25 | | - .29 | | + .17 | | + .22 | | - .38 | | + .31 | | | |
| 50s (12 TEX) | | INDEX | | YARN NEPS: | | - .08 | | - .11 | | - .04 | | - .05 | | + .54 | | + 1.00 | | - .33 | | - .41 | | - .12 | | - .05 | | + .14 | | + .11 | | - .26 | | + .18 | | | |
| 22s (27 TEX) | | NO. | | 22s (27 TEX) | | + .37 | | + .40 | | + .13 | | + .23 | | - .45 | | - .33 | | + 1.00 | | + .56 | | + .35 | | + .14 | | - .04 | | + .14 | | - .11 | | + .11 | | | |
| 50s (12 TEX) | | NO. | | SPINNING POTENTIAL | | + .06 | | + .09 | | + .03 | | + .04 | | - .41 | | - .41 | | + .56 | | + 1.00 | | + .07 | | + .14 | | + .01 | | + .14 | | + .03 | | + .02 | | | |
| COLOR OF FINISHER | | --- | | DRAWING SLIVER: | | + .96 | | + .95 | | + .54 | | + .54 | | - .25 | | - .12 | | + .35 | | + .07 | | + 1.00 | | + .42 | | + .18 | | + .01 | | + .05 | | + .05 | | | |
| GRAY: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REFLECTANCE (Rd) | | PCT. | | GRAY: | | + .43 | | + .43 | | + .29 | | + .29 | | - .29 | | - .05 | | + .14 | | + .04 | | + .42 | | + 1.00 | | + .14 | | - .13 | | - .05 | | + .13 | | | |
| YELLOWNESS (+b) | | UNITS | | BLEACHED: | | - .29 | | - .29 | | - .13 | | - .12 | | + .17 | | + .14 | | - .11 | | - .21 | | - .32 | | - .36 | | - .17 | | + .43 | | + .14 | | - .29 | | | |
| REFLECTANCE (Rd) | | PCT. | | DYE: | | + .16 | | + .16 | | + .19 | | + .13 | | - .13 | | - .02 | | - .04 | | + .01 | | + .18 | | + .14 | | + 1.00 | | + .06 | | + .05 | | + .05 | | | |
| YELLOWNESS (+b) | | UNITS | | DYE: | | - .18 | | - .19 | | - .11 | | - .12 | | + .22 | | + .11 | | - .06 | | - .13 | | - .21 | | - .13 | | - .61 | | + .01 | | - .18 | | + .05 | | | |
| REFLECTANCE (Rd) | | PCT. | | DYE: | | + .01 | | + .04 | | + .04 | | + .12 | | - .38 | | - .26 | | + .14 | | + .03 | | + .01 | | - .05 | | + .06 | | + .01 | | + .00 | | - .93 | | | |
| BLUENESS (-b) | | UNITS | | DYE: | | + .04 | | + .01 | | + .01 | | - .06 | | + .31 | | + .18 | | - .11 | | + .02 | | + .05 | | + .13 | | + .05 | | + .18 | | + .93 | | + 1.00 | | | |

TABLE 12.--COTTON: SIMPLE CORRELATION ANALYSIS FOR FIBER AND PROCESSING TEST RESULTS ON CARDED YARN FROM 14 LONG STAPLE SAMPLES
COLLECTED AT TRIWEEKLY INTERVALS FROM SELECTED GIN POINTS, CROP OF 1980.

| TEST ITEM | CLASSIFICATION | FIBER LENGTH | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | | COLOR OF RAW STOCK | | PICKER & CARD WASTE |
|---------------------------------------|----------------|-----------------|-----------------|-------------------------------|----------------------------|----------------------|-----------------------------|----------------|-----------------------|-------|---------------------------|
| | | | | 2.5% : 50/2.5 SPAN : UNIF. | ZERO : 1/8" GAGE : GAGE | | VISIBLE WASTE | TOTAL WASTE | Rd | +b | |
| | | | | | | | | | | | |
| SIMPLE CORRELATION COEFFICIENTS (r's) | | | | | | | | | | | |
| CLASSIFICATION: | | | | | | | | | | | |
| GRADE | INDEX | +1.00 | +49 | +17 | -.12 | +20 | +55 | +52 | -.71 | +.87 | -.77 |
| STAPLE | 32ND IN. | +40 | +95 | +65 | +.01 | +.04 | +.80 | +.76 | -.22 | +.55 | -.44 |
| FIBER LENGTH: | | | | | | | | | | | |
| 2.5% SPAN | IN. | +.49 | +1.00 | +.63 | -.21 | +.02 | +.80 | +.79 | -.21 | +.65 | -.47 |
| 50/2.5 UNIF. | PCT. | +.17 | +.63 | +1.00 | +.03 | -.04 | +.40 | +.66 | -.23 | +.34 | -.36 |
| MICRONAIRE | RDG. | -.12 | -.21 | +.03 | +.100 | +.27 | +.15 | -.31 | +.10 | -.24 | -.01 |
| FIBER STRENGTH: | | | | | | | | | | | |
| ZERO GAGE | MPSI | +.20 | +.02 | -.04 | +.27 | +.100 | +.23 | -.08 | +.06 | +.25 | +.01 |
| 1/8" GAGE | G/TEX | +.55 | +.80 | +.40 | +.15 | +.23 | +.100 | +.47 | -.10 | +.55 | -.50 |
| ELONGATION (1/8") | PCT. | +.52 | +.79 | +.66 | -.31 | -.08 | +.47 | +.100 | -.45 | +.80 | -.41 |
| SHIRLEY ANALYZER: | | | | | | | | | | | |
| VISIBLE WASTE | PCT. | -.71 | -.21 | -.23 | +.10 | +.06 | -.10 | -.45 | +.100 | -.53 | +.83 |
| TOTAL WASTE | PCT. | -.71 | -.32 | -.26 | -.12 | -.08 | -.34 | -.50 | +.84 | -.61 | +.90 |
| COLOR OF RAW STOCK: | | | | | | | | | | | |
| GRAYNESS (Rd) | PCT. | +.87 | +.65 | +.34 | -.24 | +.25 | +.55 | +.80 | -.53 | +.100 | -.72 |
| YELLOWNESS (+b) | UNITS | -.27 | -.63 | -.21 | +.34 | +.01 | -.50 | -.41 | -.09 | -.41 | +.00 |
| PICKER AND CARD WASTE | PCT. | -.77 | -.44 | -.36 | -.01 | -.19 | -.35 | -.59 | +.83 | -.72 | +.100 |
| YARN STRENGTH: | | | | | | | | | | | |
| 22s (27 TEX) | LBS. | +.68 | +.92 | +.53 | -.40 | -.02 | +.72 | +.83 | -.45 | +.77 | -.59 |
| 50s (12 TEX) | LBS. | +.64 | +.91 | +.56 | -.46 | -.05 | +.73 | +.78 | -.35 | +.73 | -.51 |
| YARN ELONGATION: | | | | | | | | | | | |
| 22s (27 TEX) | PCT. | +.55 | +.81 | +.57 | -.36 | +.15 | +.51 | +.91 | -.41 | +.79 | -.61 |
| 50s (12 TEX) | PCT. | +.55 | +.80 | +.62 | -.48 | +.04 | +.54 | +.86 | -.34 | +.77 | -.60 |
| YARN APPEARANCE: | | | | | | | | | | | |
| 22s (27 TEX) | INDEX | +.58 | +.47 | +.45 | +.28 | +.46 | +.48 | +.60 | -.42 | +.70 | -.67 |
| 50s (12 TEX) | INDEX | +.70 | +.43 | -.05 | +.32 | +.40 | +.65 | +.33 | -.32 | +.64 | -.46 |
| YARN NEPS: | | | | | | | | | | | |
| 22s (27 TEX) | NO. | -.17 | -.04 | -.02 | -.40 | -.56 | -.27 | -.11 | +.14 | -.25 | +.40 |
| 50s (12 TEX) | NO. | -.18 | -.26 | -.24 | -.65 | -.31 | -.38 | -.15 | +.09 | -.20 | +.43 |
| SPINNING POTENTIAL | | | | | | | | | | | |
| COLOR OF FINISHER | NO. | +.59 | +.92 | +.59 | -.46 | -.10 | +.69 | +.82 | -.35 | +.71 | -.51 |
| DRAWING SLIVER: | | | | | | | | | | | |
| GRAY: | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | +.84 | +.62 | +.18 | -.12 | +.36 | +.70 | +.48 | -.48 | +.75 | -.70 |
| YELLOWNESS (+b) | UNITS | -.18 | -.38 | -.14 | +.33 | +.27 | -.34 | -.33 | -.10 | -.29 | -.15 |
| BLEACHED: | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | +.57 | +.50 | +.19 | -.37 | +.07 | +.24 | +.57 | -.74 | +.54 | -.71 |
| YELLOWNESS (+b) | UNITS | -.12 | -.32 | -.01 | +.09 | +.27 | -.33 | -.26 | -.11 | -.17 | -.19 |
| DYED: | | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | -.45 | -.02 | +.31 | -.50 | -.65 | -.42 | +.11 | +.06 | -.32 | +.25 |
| BLUENESS (-b) | UNITS | +.55 | +.03 | -.00 | +.41 | +.60 | +.40 | -.07 | -.17 | +.40 | -.32 |

| TEST ITEM | | COMBER WASTE | YARN PROPERTIES | | | | | | | |
|---------------------------------------|----------|-----------------|-----------------|--------|------------|--------|------------|--------|--------|--------|
| | | | STRENGTH | | ELONGATION | | APPEARANCE | | NEPS | |
| | | | 22s | : 50s | 22s | : 50s | 22s | : 50s | 22s | : 50s |
| SIMPLE CORRELATION COEFFICIENTS (r's) | | | | | | | | | | |
| - - - - - | | | | | | | | | | |
| CLASSIFICATION: | | | | | | | | | | |
| GRADE | INDEX | - .45 | + .72 | + .64 | + .50 | + .55 | + .67 | + .48 | - .52 | - .31 |
| STAPLE | 32ND IN. | - .86 | + .79 | + .85 | + .61 | | + .18 | + .28 | - .23 | - .61 |
| FIBER LENGTH: | | | | | | | | | | |
| 2.5% SPAN | IN. | - .87 | + .91 | + .95 | + .74 | + .13 | + .13 | + .21 | - .27 | - .51 |
| 50/2.5 UNIF. | PCT. | - .63 | + .56 | + .54 | + .59 | + .12 | + .12 | + .16 | + .04 | - .44 |
| MICRONAIRE | RDG. | + .32 | - .42 | - .41 | - .43 | - .32 | + .17 | + .57 | - .18 | - .39 |
| FIBER STRENGTH: | | | | | | | | | | |
| ZERO GAGE | MPSI | + .12 | + .05 | + .02 | - .05 | + .05 | + .49 | + .45 | - .55 | - .27 |
| 1/8" GAGE | G/TEX | - .66 | + .73 | + .74 | + .40 | + .47 | + .32 | + .43 | - .36 | - .43 |
| ELONGATION (1/8") | PCT. | - .82 | + .81 | + .83 | + .90 | + .91 | + .33 | + .22 | - .33 | - .48 |
| SHIRLEY ANALYZER: | | | | | | | | | | |
| VISIBLE WASTE | PCT. | + .32 | - .45 | - .38 | - .37 | - .47 | - .61 | - .40 | + .23 | + .41 |
| TOTAL WASTE | PCT. | + .37 | - .45 | - .41 | - .36 | - .57 | - .56 | - .62 | + .50 | + .60 |
| COLOR OF RAW STOCK: | | | | | | | | | | |
| GRAYNESS (Rd) | PCT. | - .58 | + .81 | + .77 | + .76 | + .79 | + .62 | + .43 | - .65 | - .38 |
| YELLOWNESS (+b) | UNITS | + .35 | - .57 | - .59 | - .36 | - .24 | + .05 | + .20 | + .22 | - .08 |
| PICKER AND | | | | | | | | | | |
| CARD WASTE | PCT. | + .45 | - .60 | - .56 | - .51 | - .65 | - .56 | - .66 | + .52 | + .70 |
| COMBER WASTE | PCT. | + 1.00 | - .86 | - .89 | - .76 | - .80 | - .19 | - .05 | + .02 | + .40 |
| YARN STRENGTH: | | | | | | | | | | |
| 22s (27 TEX) | LBS. | - .86 | + 1.00 | + .99 | + .80 | + .78 | + .36 | + .21 | - .30 | - .37 |
| 50s (12 TEX) | LBS. | - .89 | + .99 | + 1.00 | + .81 | + .81 | + .28 | + .20 | - .30 | - .43 |
| YARN ELONGATION: | | | | | | | | | | |
| 22s (27 TEX) | PCT. | - .76 | + .80 | + .81 | + 1.00 | + .94 | + .27 | + .11 | - .36 | - .32 |
| 50s (12 TEX) | PCT. | - .80 | + .78 | + .81 | + .94 | + 1.00 | + .37 | + .28 | - .48 | - .50 |
| YARN APPEARANCE: | | | | | | | | | | |
| 22s (27 TEX) | INDEX | - .19 | + .36 | + .28 | + .27 | + .37 | + 1.00 | + .58 | - .46 | - .31 |
| 50s (12 TEX) | INDEX | - .05 | + .21 | + .20 | + .11 | + .28 | + .58 | + 1.00 | - .65 | - .81 |
| YARN NEPS: | | | | | | | | | | |
| 22s (27 TEX) | NO. | + .02 | - .30 | - .30 | - .36 | - .48 | - .46 | - .65 | + 1.00 | + .45 |
| 50s (12 TEX) | NO. | + .40 | - .37 | - .43 | - .32 | - .50 | - .31 | - .81 | + .45 | + 1.00 |
| COLOR OF FINISHER | | | | | | | | | | |
| DRAWING SLIVER: | | | | | | | | | | |
| GRAY: | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | - .54 | + .76 | + .74 | + .45 | + .54 | + .40 | + .40 | - .56 | - .41 |
| YELLOWNESS (+b) | UNITS | + .24 | - .43 | - .45 | - .36 | - .19 | + .20 | + .33 | + .15 | - .24 |
| BLEACHED: | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | - .59 | + .63 | + .65 | + .58 | + .69 | + .35 | + .17 | - .29 | - .44 |
| YELLOWNESS (+b) | UNITS | + .26 | - .24 | - .29 | - .38 | - .30 | + .20 | + .21 | + .21 | - .14 |
| DYE: | | | | | | | | | | |
| REFLECTANCE (Rd) | PCT. | - .09 | - .01 | + .02 | + .08 | - .09 | - .54 | - .64 | + .64 | + .27 |
| BLUENESS (-b) | UNITS | + .06 | + .07 | + .04 | - .00 | + .15 | + .56 | + .57 | - .67 | - .20 |

TABLE 13.--COTTON: MULTIPLE REGRESSION ANALYSIS FOR SELECTED FIBER TEST MEASUREMENTS WITH PROCESSING TESTS, 104 SHORT STAPLE SAMPLES COLLECTED AT TRIWEEKLY INTERVALS FROM SELECTED GIN POINTS, CROP OF 1980.

[illegible]

TABLE 13.--CONTINUED

| DEPENDENT VARIABLE | NO. OF INDEP. VAR. | CONSTANT (a) | CLASSIFICATION | | FIBER LENGTH | | MICRO- NAIRE | | FIBER STRENGTH | | 1/8" ELON- GATION | | SHIRLEY ANALYZER | | COLOR OF RAW STOCK | | R ² |
|-------------------------------|--------------------------|-----------------|----------------|--------|-----------------|---------------|-----------------|------|-------------------|-----------|----------------------|----|---------------------|--|-----------------------|--|----------------|
| | | | GRADE | STAPLE | SPAN | 2.5% UNIF. | 50/2.5 | ZERO | 1/8" GAGE | 1/8" GAGE | NONLINT | Rd | +b | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| REGRESSION COEFFICIENTS (b's) | | | | | | | | | | | | | | | | | |
| YARN APPEARANCE: | | | | | | | | | | | | | | | | | |
| 8s (74 TEX) - | 1 | +151.61 | | | | | | | | | | | | | | | .09 |
| | 2 | +136.27 | | | | | | | | | | | | | | | .13 |
| | 3 | +146.85 | | | | | | | | | | | | | | | .17 |
| | 4 | +118.26 | | | | | | | | | | | | | | | .18 |
| | 5 | +77.35 | | | | | | | | | | | | | | | .20 |
| 22s (27 TEX) - | 1 | +143.65 | | | | | | | | | | | | | | | .06 |
| | 2 | +169.50 | | | | | | | | | | | | | | | .12 |
| | 3 | +111.26 | | | | | | | | | | | | | | | .17 |
| | 4 | +121.50 | | | | | | | | | | | | | | | .18 |
| | 5 | +157.87 | | | | | | | | | | | | | | | .22 |
| YARN NEPS: | | | | | | | | | | | | | | | | | |
| 8s (74 TEX) - | 1 | +43.58 | | | | | | | | | | | | | | | .05 |
| | 2 | +31.37 | | | | | | | | | | | | | | | .07 |
| | 3 | +50.50 | | | | | | | | | | | | | | | .09 |
| | 4 | -18.46 | | | | | | | | | | | | | | | .12 |
| | 5 | -6.14 | | | | | | | | | | | | | | | .14 |
| 22s (27 TEX) - | 1 | +197.13 | | | | | | | | | | | | | | | .10 |
| | 2 | +84.06 | | | | | | | | | | | | | | | .14 |
| | 3 | +37.51 | | | | | | | | | | | | | | | .16 |
| | 4 | +39.45 | | | | | | | | | | | | | | | .17 |
| | 5 | -91.95 | | | | | | | | | | | | | | | .18 |
| SPINNING POTENTIAL ----- | | | | | | | | | | | | | | | | | |
| | 1 | -133.09 | | | | | | | | | | | | | | | .61 |
| | 2 | -153.19 | | | | | | | | | | | | | | | .70 |
| | 3 | -118.05 | | | | | | | | | | | | | | | .73 |
| | 4 | -97.34 | | | | | | | | | | | | | | | .74 |
| | 5 | -74.06 | | | | | | | | | | | | | | | .75 |

TABLE 13. --CONTINUED

[illegible]

TABLE 14.--COTTON: MULTIPLE REGRESSION ANALYSIS FOR SELECTED FIBER TEST MEASUREMENTS WITH PROCESSING TESTS, 295 MEDIUM STAPLE SAMPLES COLLECTED AT TRIWEEKLY INTERVALS FROM SELECTED GIN POINTS, CROP OF 1980.

| DEPENDENT VARIABLE | NO. OF INDEP. VAR. | CONSTANT | CLASSIFICATION | FIBER LENGTH | | REGRESSION COEFFICIENTS (b's) | | MICRO- INAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | STANDARD ERROR OF ESTIMATE | R ² |
|---|--------------------------|----------|----------------|--------------|---------|-------------------------------|-------------------|------------------|------------------|----------------|-------------------------|--------------------------------|-----------------------|-------|-------------------------------------|----------------|
| | | | | GRADE : | STAPLE | 2.5% SPAN : | 50/2.5 UNIF. : | | ZERO : GAGE : | 1/8" GAGE : | | | Rd : | +b | | |
| TOTAL PICKER & CARD WASTE -- | | | | | | | | | | | | | | | | |
| | 1 | +4.63 | | | | | | | | | | | | | | |
| | 2 | +10.44 | | | -5.22 | | | | | | | + .77 | | | .76 | .53 |
| | 3 | +13.31 | -.03 | | -4.72 | | | | | | | + .70 | | | .73 | .58 |
| | 4 | +14.34 | -.03 | | -5.01 | | | | | | | + .57 | | | .71 | .60 |
| | 5 | +16.04 | -.03 | | -4.94 | -.05 | | | | | | + .58 | | | .70 | .61 |
| | | | | | | | | | | | | + .58 | | | .70 | .61 |
| YARN STRENGTH: | | | | | | | | | | | | | | | | |
| | 1 | -39.14 | | | | | | | | | | | | | | |
| | 2 | -100.46 | | | +84.57 | | | | | | | | | | | |
| | 3 | -94.82 | | | +133.95 | | | -9.91 | | | | | | | | .65 |
| | 4 | -198.61 | | | +151.85 | | | -9.34 | | | | | | | | .76 |
| | 5 | -230.06 | | | +148.72 | | | -8.40 | | | | | | + .54 | | .83 |
| | | | | | | | | | | | | | | | | |
| | 1 | -32.67 | | | | | | | | | | | | | | |
| | 2 | -61.59 | | | +39.87 | | | | | | | | | | | .66 |
| | 3 | -59.07 | | | +61.90 | | | -4.42 | | | | | | | | .70 |
| | 4 | -103.16 | | | +69.50 | | | -4.18 | | | | | | | | .76 |
| | 5 | -116.63 | | | +68.16 | | | -3.77 | | | | | | + .23 | | .80 |
| | | | | | | | | | | | | | | | | .82 |
| YARN ELONGATION: | | | | | | | | | | | | | | | | |
| | 1 | +3.45 | | | | | | | | | | | | | | |
| | 2 | -1.10 | | | +4.11 | | | | | | | | | | | .27 |
| | 3 | -4.45 | | | +3.84 | | | | | | | | | | | .42 |
| | 4 | -3.65 | | | +4.51 | | | -.21 | | | | | | | | .48 |
| | 5 | -4.10 | | | +4.05 | | | -.18 | | | | | | + .02 | | .52 |
| | | | | | | | | | | | | | | | | |
| | 1 | +2.28 | | | | | | | | | | | | | | .24 |
| | 2 | + .78 | | | | | | | | | | | | | | .40 |
| | 3 | -.21 | | | | | | | | | | | | + .02 | | .44 |
| | 4 | -4.75 | | | +2.52 | | | | | | | | | + .02 | | .47 |
| | 5 | -3.97 | | | +3.19 | | | -.19 | | | | | | + .02 | | .50 |

TABLE 14.--CONTINUED

| DEPENDENT VARIABLE | NO. OF INDEP. VAR. | CONSTANT (a) | CLASSIFICATION | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | STANDARD ERROR OF ESTIMATE | R ² |
|-----------------------------|--------------------------|-----------------|----------------|-------------------------------|-----------------|-----------------|-------------------|--------------|-------------------------|--------------------------------|-----------------------|-------|-------------------------------------|----------------|
| | | | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO GAGE | 1/8" GAGE | | | Rd | +b | | |
| | | | | REGRESSION COEFFICIENTS (b's) | | | | | | | | | | |
| YARN APPEARANCE: | | | | | | | | | | | | | | |
| 22s (27 TEX) - | 1 | +181.94 | | | | | | | | | | | | |
| | 2 | +125.49 | | | | +10.30 | | | | | -1.24 | | 12.86 | .15 |
| | 3 | +60.66 | | | | +11.90 | | | | | -1.09 | | 12.05 | .26 |
| | 4 | +90.89 | | | | +13.19 | | | | | -1.00 | +4.12 | 11.75 | .30 |
| | 5 | +107.59 | +51 | -58.06 | +1.77 | +12.30 | | | | | -1.68 | | 11.59 | .32 |
| 50s (12 TEX) - | 1 | +48.09 | | | | +3.73 | | | | | | | | |
| | 2 | +23.05 | | | | +4.45 | | | | | | | 6.58 | .06 |
| | 3 | +28.40 | -1.30 | | +1.23 | +6.12 | | | | | | +2.48 | 6.33 | .13 |
| | 4 | +39.01 | -1.33 | | +1.23 | +5.67 | | | | | | | 6.10 | .20 |
| | 5 | +44.17 | -1.12 | | +1.32 | +5.75 | | | | | | | 6.06 | .21 |
| YARN NEPS: | | | | | | | | | | | | | | |
| 22s (27 TEX) - | 1 | -115.18 | | | | | | | | | | | | |
| | 2 | -176.49 | | | | | | | | +8.37 | | | 39.27 | .16 |
| | 3 | -219.09 | | | | | | | | | | | 38.42 | .20 |
| | 4 | -311.10 | -2.66 | +288.69 | | -25.21 | | | | | +3.73 | | 37.58 | .23 |
| | 5 | -256.03 | -2.77 | +434.00 | | -24.29 | | | | | +3.32 | | 36.84 | .27 |
| 50s (12 TEX) - | 1 | +1437.78 | | | | -21.06 | | | | | | | 36.18 | .30 |
| | 2 | +611.79 | | | | | | | | | | | 131.54 | .08 |
| | 3 | +739.35 | | | | | | | | | | | 125.47 | .17 |
| | 4 | +640.37 | | | | | | | | | | | 124.18 | .19 |
| | 5 | +603.49 | +12.63 | +648.16 | -29.21 | -46.22 | | | | | | | 124.13 | .19 |
| SPINNING POTENTIAL ----- | 1 | -65.58 | | | | | | | | | | | | |
| | 2 | -142.01 | | | | | | | | | | | 8.45 | .59 |
| | 3 | -136.82 | | | | | | | | | | | 7.58 | .67 |
| | 4 | -220.81 | | | | | | | | | | | 6.61 | .75 |
| | 5 | -236.44 | | | | | | | | | | | 6.03 | .79 |
| | | | | | | | | | | | | | 5.95 | .80 |
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TABLE 15.--COTTON: MULTIPLE REGRESSION ANALYSIS FOR SELECTED FIBER TEST MEASUREMENTS WITH PROCESSING TESTS, 14 LONG STAPLE SAMPLES COLLECTED AT TRIWEEKLY INTERVALS FROM SELECTED GIN POINTS, CROP OF 1980.

| DEPENDENT VARIABLE | NO. OF INDEP. VAR. | CONSTANT (a) | CLASSIFICATION | FIBER LENGTH | | MICRO-NAIRE | FIBER STRENGTH | | 1/8" ELONGATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | STANDARD ERROR OF ESTIMATE | R ² |
|-------------------------------|--------------------|--------------|----------------|--------------|--------------|-------------|----------------|-----------|-----------------|--------------------------|--------------------|----|----------------------------|----------------|
| | | | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO GAGE | 1/8" GAGE | | | Rd | +b | | |
| REGRESSION COEFFICIENTS (b's) | | | | | | | | | | | | | | |
| TOTAL PICKER & CARD WASTE -- | | | | | | | | | | | | | | |
| | 1 | +5.20 | | | | | | | | +1.01 | | | .43 | .81 |
| | 2 | +9.85 | | | | | | | | +82 | | | .39 | .86 |
| | 3 | +13.50 | | | | | | | | +72 | | | .39 | .87 |
| | 4 | +13.34 | +42 | | -18.18 | | | | | +90 | | | .35 | .91 |
| | 5 | +22.68 | -.07 | | -10.77 | | | +21 | | +59 | | | .30 | .94 |
| YARN STRENGTH: | | | | | | | | | | | | | | |
| 22s (27 TEX) - | 1 | -286.29 | +1.11 | | +355.49 | | | | | | | | 8.34 | .84 |
| | 2 | -323.34 | +1.09 | | +298.75 | | | | | | | | 6.56 | .91 |
| | 3 | -248.64 | +1.07 | | +283.15 | -12.84 | | | | | | | 5.00 | .95 |
| | 4 | -291.22 | +1.16 | +3.88 | +307.62 | -14.24 | | | | | +2.60 | | 4.93 | .96 |
| | 5 | -288.38 | | | +190.36 | -17.94 | | | | | +2.39 | | 4.94 | .96 |
| 50s (12 TEX) - | 1 | -138.44 | | | +158.00 | | | | | | | | 3.90 | .83 |
| | 2 | -94.12 | | | +147.93 | -7.70 | | | | | | | 3.05 | .90 |
| | 3 | -108.98 | +42 | | +126.84 | -7.53 | | | | | | | 2.27 | .95 |
| | 4 | -104.32 | +36 | | | -14.37 | | +2.93 | | | | | 2.11 | .96 |
| | 5 | -114.01 | +36 | | +59.48 | -11.33 | | +1.67 | | | | | 1.66 | .98 |
| YARN ELONGATION: | | | | | | | | | | | | | | |
| 22s (27 TEX) - | 1 | -3.93 | | | | | | | | | | | .29 | .83 |
| | 2 | -9.73 | | | | | | | | | | | .25 | .88 |
| | 3 | -8.81 | | | | | | | | | | | .24 | .90 |
| | 4 | -9.54 | -.25 | | +9.09 | -.33 | | | | | | | .22 | .92 |
| | 5 | -11.75 | -.28 | | +11.55 | | | | | | +1.13 | | .21 | .94 |
| 50s (12 TEX) - | 1 | -2.93 | | | | | | | | | | | .29 | .75 |
| | 2 | -.55 | | | | | | | | | | | .27 | .80 |
| | 3 | -.63 | | | | | | | | | | | .23 | .86 |
| | 4 | -2.54 | | | | | | | | | | | .21 | .90 |
| | 5 | -7.81 | | | +4.95 | +.11 | | | | | +1.17 | | .19 | .93 |

TABLE 15.--CONTINUED

| DEPENDENT VARIABLE | NO. OF INDEP. VAR. | CONSTANT (a) | CLASSIFICATION | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | STANDARD ERROR OF ESTIMATE | R ² |
|-----------------------------|--------------------------|-----------------|----------------|-----------------|-----------------|-----------------|-------------------|----------------|----------------------|--------------------------------|-----------------------|--------|-------------------------------------|----------------|
| | | | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO : GAGE | 1/8" : GAGE | | | Rd | +b | | |
| | | | | | | | | | | | | | | |
| YARN APPEARANCE: | | | | | | | | | | | | | | |
| 22s (27 TEX) - | 1 | -32.32 | | | | +19.41 | | | | | +2.04 | | 10.06 | .49 |
| | 2 | -139.62 | | | | +16.22 | | | | | +2.36 | | 8.05 | .70 |
| | 3 | -194.13 | | | | +15.38 | | | | | +2.67 | +5.08 | 7.39 | .77 |
| | 4 | -276.57 | | | | +14.41 | | | | | +2.19 | +7.67 | 6.92 | .82 |
| | 5 | -352.94 | | +88.54 | | | +1.66 | | +19.62 | | +1.22 | +5.56 | 6.30 | .87 |
| 50s (12 TEX) - | 1 | -40.77 | +1.32 | | | +12.90 | | | | | | | 7.53 | .49 |
| | 2 | -105.31 | +1.41 | | | +15.01 | | | | +3.88 | | | 6.38 | .67 |
| | 3 | -166.87 | +1.86 | | | +15.53 | | | | | +1.53 | | 6.20 | .71 |
| | 4 | -.49 | | +3.56 | -5.07 | +14.36 | | | | +3.30 | | | 3.74 | .91 |
| | 5 | -93.55 | +1.50 | +4.18 | -4.13 | | | | | | | | 3.55 | .93 |
| YARN NEPS: | | | | | | | | | | | | | | |
| 22s (27 TEX) - | 1 | +298.02 | | | | | -3.03 | | | | | | 11.40 | .31 |
| | 2 | +253.30 | | | | | | -4.93 | | | | -12.31 | 10.15 | .50 |
| | 3 | +433.53 | | | | | -2.37 | -3.90 | | | | -11.17 | 8.58 | .67 |
| | 4 | +500.06 | | | | | -2.62 | -3.06 | -9.57 | | | -12.06 | 8.32 | .72 |
| | 5 | +427.49 | | | | +2.69 | -2.59 | -3.41 | -15.58 | | | -12.63 | 8.21 | .76 |
| 50s (12 TEX) - | 1 | +758.14 | | | | -138.85 | | | | | | | 55.25 | .43 |
| | 2 | +1439.32 | | | | -137.75 | | | | | | | 47.85 | .61 |
| | 3 | +1870.61 | -19.80 | | | -114.36 | | | | | | -27.69 | 46.21 | .67 |
| | 4 | +1962.31 | -27.82 | | | -123.95 | | | | | -3.00 | -28.52 | 46.85 | .69 |
| | 5 | +2104.60 | -36.24 | | | -97.07 | | | +89.29 | | -6.38 | -36.80 | 46.95 | .72 |
| SPINNING POTENTIAL ----- | | | | | | | | | | | | | | |
| | 1 | -310.83 | | | +337.45 | | | | | | | | 7.94 | .84 |
| | 2 | -214.58 | | | +315.58 | -16.72 | | | | | | | 5.86 | .92 |
| | 3 | -169.30 | | | +293.31 | -18.63 | | | | -3.85 | | | 5.09 | .95 |
| | 4 | -139.95 | | | +234.10 | -22.17 | +2.10 | | | -3.72 | | | 4.89 | .95 |
| | 5 | -183.10 | | | +160.62 | +2.52 | -25.73 | +3.25 | | -3.54 | | | 4.32 | .97 |

TABLE 15.--CONTINUED

| DEPENDENT VARIABLE | NO. OF INDEP. VAR. | CONSTANT (a) | CLASSIFICATION | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | R ² |
|--------------------------------------|--------------------------|-----------------|----------------|-----------------|-----------------|-----------------|-------------------|--------------|-------------------------|--------------------------------|-----------------------|------|----------------|
| | | | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO GAGE | 1/8" GAGE | | | Rd | +b | |
| REGRESSION COEFFICIENTS (b's) | | | | | | | | | | | | | |
| COLOR OF FINISHER DRAWING SLIVER: | | | | | | | | | | | | | |
| GRAY (Rd) ----- | 1 | -3.60 | + .86 | | | | | | | | | | .70 |
| | 2 | -29.80 | + .68 | +39.05 | | | | | | | | 3.19 | .80 |
| | 3 | -34.15 | + .76 | +71.99 | | | | | -6.66 | | | 2.72 | .87 |
| | 4 | -69.42 | + .70 | +68.92 | | | + .42 | | -5.62 | | | 2.17 | .90 |
| | 5 | -53.61 | + .56 | +76.65 | | | + .43 | | -6.99 | -1.37 | | 2.09 | .91 |
| GRAY (+b) ----- | 1 | +2.90 | | | | | | | | | + .73 | .25 | .85 |
| | 2 | -3.36 | | | | | + .07 | | | | + .73 | .19 | .92 |
| | 3 | -5.77 | | + .06 | | | + .07 | | | | + .79 | .18 | .94 |
| | 4 | -6.26 | + .07 | + .24 | | - .19 | + .07 | | | | + .82 | .18 | .94 |
| | 5 | -5.71 | + .24 | -5.45 | | - .37 | + .08 | | | | + .80 | .17 | .95 |
| BLEACHED (Rd) - | 1 | +92.61 | | | | | | | | | | .63 | .40 |
| | 2 | +97.46 | | | | -1.08 | | | | - .59 | | .54 | .60 |
| | 3 | +91.66 | + .15 | | | -1.06 | | | | - .54 | | .51 | .68 |
| | 4 | +89.88 | + .31 | | | - .94 | | | | - .55 | | .72 | .79 |
| | 5 | +91.94 | + .58 | | | -1.36 | | | -1.22 | - .71 | | .46 | .79 |
| BLEACHED (+b) - | 1 | +1.61 | | | | | | | | | | .45 | .31 |
| | 2 | -3.52 | | | | | | | | | + .36 | .45 | .38 |
| | 3 | -3.60 | | | | - .33 | | | | | + .40 | .46 | .41 |
| | 4 | -6.52 | | | + .06 | - .36 | | | | | + .43 | .47 | .43 |
| | 5 | -6.61 | | | + .14 | - .49 | | | - .44 | | + .39 | .48 | .47 |
| DYED (Rd) ----- | 1 | +61.45 | | | | | | | | | | 1.08 | .42 |
| | 2 | +62.90 | | | | -1.45 | | | | | | 1.01 | .54 |
| | 3 | +68.09 | - .10 | | | -1.78 | | | | | | .69 | .86 |
| | 4 | +50.31 | - .12 | | + .41 | -1.91 | | | | | | .66 | .84 |
| | 5 | +41.72 | | | + .59 | -1.98 | | | - .22 | | - .12 | .61 | .88 |
| DYED (-b) ----- | 1 | +10.59 | | | | | | | | | | .80 | .36 |
| | 2 | +6.91 | + .08 | | | | + .24 | | | | | .70 | .55 |
| | 3 | +33.49 | | | | +1.75 | + .20 | | | | | .54 | .76 |
| | 4 | +19.32 | + .10 | | - .33 | +1.15 | + .14 | | | | + .16 | .44 | .85 |
| | 5 | +21.29 | + .09 | | - .37 | +1.05 | + .13 | | | | | .44 | .87 |

[illegible]

TABLE 15A.--CONTINUED

| DEPENDENT VARIABLE | NO. OF INDEP. VAR. | CONSTANT (a) | CLASSIFICATION | FIBER LENGTH | | MICRO- NAIRE | FIBER STRENGTH | | 1/8" ELON- GATION | SHIRLEY ANALYZER NONLINT | COLOR OF RAW STOCK | | STANDARD ERROR OF ESTIMATE | R ² |
|-------------------------------|--------------------------|-----------------|----------------|-----------------|-----------------|-----------------|-------------------|----------------|----------------------|--------------------------------|-----------------------|-------|-------------------------------------|----------------|
| | | | | 2.5% SPAN | 50/2.5 UNIF. | | ZERO : GAGE | 1/8" : GAGE | | | Rd | +b | | |
| | | | | | | | | | | | | | | |
| REGRESSION COEFFICIENTS (b's) | | | | | | | | | | | | | | |
| YARN APPEARANCE: | | | | | | | | | | | | | | |
| 22s (27 TEX) - | 1 | +88.97 | +45 | | | | | | | | | | | .45 |
| | 2 | +43.53 | +40 | | | | | | | | | | | .58 |
| | 3 | +32.32 | +44 | | | | | | | | | +1.03 | | .62 |
| | 4 | +47.40 | +54 | +2.40 | -83.84 | | | | | | | | | .70 |
| | 5 | +43.80 | +47 | +2.09 | -95.01 | | | | +4.14 | | | | | .76 |
| 50s (12 TEX) - | 1 | +145.96 | | | | | | | | | | | | .39 |
| | 2 | -163.14 | | | | +31.87 | | | -10.80 | | +1.91 | | 11.93 | .67 |
| | 3 | -215.18 | | | | +28.82 | | | | | +2.20 | +4.85 | 9.15 | .73 |
| | 4 | -151.43 | | | | +23.97 | | | -6.44 | | +1.27 | | 8.76 | .76 |
| | 5 | -194.89 | | | | +23.62 | | | -4.96 | | +1.27 | +2.79 | 8.91 | .77 |
| YARN NEPS: | | | | | | | | | | | | | | |
| 22s (27 TEX) - | 1 | +121.94 | | | | | | | | | | | | .42 |
| | 2 | +257.88 | | | | | | | | | -1.35 | | 7.65 | .58 |
| | 3 | +88.33 | | | | +2.64 -11.62 | | | | | -1.13 | | 6.77 | .65 |
| | 4 | +55.32 | +1.02 | | | +3.34 -13.41 | | | | | -1.80 | | 6.54 | .72 |
| | 5 | +133.41 | +88 | | | +2.93 -10.64 | | | | | -2.93 | | 6.17 | .76 |
| 50s (12 TEX) - | 1 | +1633.62 | | | | | | | | | | | | .37 |
| | 2 | +3025.48 | | -41.40 | | | | | | | | | 84.22 | .60 |
| | 3 | +2403.13 | | -62.29 | | | | | | | | | 69.70 | .66 |
| | 4 | +3220.21 | | -51.33 | | | | | | | | | 67.91 | .71 |
| | 5 | +2856.41 | | -50.97 | -2160.39 | -167.51 | | | | | | | 66.51 | .78 |
| | | | | | | | | | | | | | 61.38 | |

DESCRIPTION OF STATISTICS USED IN ANALYSIS

Some of the statistical concepts used in this study may be unfamiliar to many who will find the information in this report useful. Results reported in this study include the means, standard deviations, simple correlations, regression equations and coefficients of determination (R-squares). Formulas for each of these results may be found in any good textbook on statistical correlation. However, for those not familiar with these concepts, the following common language explanation is given for each item as it is used in this report:

a. Mean value is the simple arithmetical average of each measured property for the spinning lots included in the study.

b. Standard deviation is a measure of dispersion around the mean value expressed in the same terms as the variable. For a normal distribution, approximately 68 percent of the values will be within plus or minus one standard deviation of the mean, 95 percent within plus or minus two standard deviations, and nearly all values will be within plus or minus three standard deviations.

Example: (From Table 9, page 88) The mean or average Fibrograph 2.5% span length for the short staple cottons is 0.978 inches. The standard deviation is 0.034 inches. This indicates that 68 percent of the lots tested in the short staple group should have a fiber length between 0.944 and 1.012 inches. The fiber length of ninety-five percent of the lots tested fall between 0.910 and 1.046 inches and nearly all would be between 0.876 and 1.080 inches.

c. Simple correlation coefficient (r) is a measure of the linear relationship between two variables, i.e., how one variable is associated with the other. A correlation coefficient of 0 indicates no relationship, and 1.0 indicates a perfect relationship. A plus sign before the correlation coefficient indicates that the values for both variables change in the same direction, whereas a minus sign indicates that they change in opposite directions.

Example: (From Table 11, page 93, line 1) The simple correlation coefficient of the grade index with picker and card waste is -.62. This indicates that grade index and picker and card waste are inversely related, i.e., as one goes up or down the other goes in the opposite direction.

d. Regression equation or prediction equation is used to estimate changes in the dependent variable which will result from changes in the independent variable or variables. It is written:

$$Y = a + b_1X_1 + b_2X_2 + \dots + b_NX_N$$

where Y is the dependent variable and the X's are independent variables.

d. Regression equation (continued)

The constant "a" indicates the starting point or height of the regression line when it is to be plotted on a graph or to be used in calculating changes in the dependent variable. The regression coefficient "b" indicates the directional change in the dependent variable that is associated with changes in the independent variable. The spread or scatter of the data around the regression line is measured by the standard error. The standard error has the same relationship to the regression line as the standard deviation has to the mean value (see paragraph b, above).

Example: (From Table 14, page 101) The constant, coefficients and standard error for the regression equation with 22s yarn as the dependent variable are:

| | |
|------------------------------|---------|
| Constant (a) | - 94.82 |
| Regression coefficients (b) | |
| 2.5% span length | +133.95 |
| micronaire readings | - 9.91 |
| 1/8-inch gage fiber strength | + 4.23 |
| Standard error | ± 7.51 |

With regression coefficients (b's) of +133.95 for 2.5% span length, -9.91 for micronaire reading and +4.23 for 1/8-inch gage fiber strength, the following average conditions should exist:

- (1) With any unit changes (.01 inches) in 2.5% span length, yarn strength should change 1.34 lbs. in the same direction.
- (2) With any unit change (1.0) in micronaire reading, yarn strength should change 9.91 lbs. in the opposite direction.
- (3) With any unit change in 1/8-inch gage fiber strength, yarn strength should change 4.23 lbs. in the same direction.

Expressing the equation algebraically:

$$\text{Yarn strength 22s (lbs)} = -94.82 + 133.95 (2.5\% \text{ span length}) - 9.91 (\text{mike}) + 4.23 (1/8\text{-inch gage fiber strength})$$

To predict the yarn strength from a bale of cotton with a medium fiber length of 1.05, a micronaire of 4.0 and a fiber strength of 22 grams per tex, the equation would be:

$$\text{Yarn strength (lbs)} = -94.82 + 133.95(1.05) - 9.91(4.0) + 4.23(22)$$

$$\text{Yarn strength (lbs)} = 99.25$$

The standard error can be used to establish a lower and upper limit about the predicted value. In this example, the standard error of 7.51 pounds indicates that yarn strength from a bale of cotton with these fiber properties should be 99.25 ± 7.51 pounds or between 92 and 107 pounds 68 percent of the time.

d. Regression equation (continued)

Regression equations are given in the tables for simple and multiple relationships. Equations for simple relationships may be calculated by using the formula:

$$Y = a + bX$$

where $a = \text{Mean } Y - b (\text{Mean } X)$

$$b = r \frac{\text{Std. Dev. } Y}{\text{Std. Dev. } X}$$

Estimating an equation with more than one independent variable is more complex. Most statistical textbooks describe the method for estimating multivariate equations.

e. R-square (R^2) when multiplied by 100 will give the coefficient of determination. The resulting percentage is the amount of the variation in the dependent variable explained by the independent variable(s). In the above example $R^2 = .76$; therefore, 76% of the variation in yarn strength is explained by the 2.5% span length, micronaire, and 1/8-inch gage fiber strength. The remaining variations in yarn strength (24%) is unexplained by the three independent variables in this equation.

For simple regressions (equations containing one independent variable) the coefficient of determination can easily be obtained by squaring the simple correlation coefficient and multiplying by 100.

The multiple correlation coefficient (R) can be obtained by taking the square root of R-square. This coefficient is a measure of the linear relationship between one dependent variable and two or more independent variables. It has no plus or minus sign because one independent variable may contribute positively, and another negatively, in explaining the variation in the dependent variable. The multiple R may fall between 0 and 1.0, with 0 indicating no relationship and 1.0 a perfect relationship.

INTERPRETING STATISTICAL DATA

In referring to the data presented in the tables of this report, it is well to keep in mind several factors which influence the results and could lead to erroneous conclusions.

Results obtained from regression analysis are significantly influenced by the specific variables included in an equation and by their number. This is mainly due to the interrelationships of fiber properties. As interrelated properties (independent variables) are added to an equation, the specific contribution of a given property may decrease sharply while at the same time the overall correlation will increase. For example, a correlation of staple length with yarn strength usually shows a good relationship, with a large amount of the variation in yarn strength explainable by differences in staple length. But, as other measures are taken into consideration, particularly fiber strength at 1/8-inch gage, the importance of staple length in explaining the total variation in yarn strength decreases rather sharply; even though the total variation explained is increased. This situation occurs because fiber strength is more closely related to yarn strength than is staple length. Yet, when fiber strength is not included in the equation, some of the effects of strength are evidenced through the interrelation of strength and staple length. Perhaps the most important fact to be kept in mind is that interpretations are no better than the principles used in the analysis. To estimate the importance of a specific variable, all of the available data should be studied using the appropriate statistical techniques.

BASIS FOR INTERPRETATION OF TEST RESULTS

The following explanation of the data published in Tables 1 through 8 of this report may be helpful in the interpretation of test results.

Classification

Classification was made in accordance with the official Cotton Standards for grade and staple length. These results are presented under the usual terms for the individual lots, but the grade values were converted to an index for averaging in the summary tables.

Grade index, as reported in the summary tables, is designed to reflect differences in market value and provides a method for averaging the grade for a number of individual lots. Middling grade is used as the basis of 100, and higher or lower index numbers reflect higher or lower average market values, respectively. Index values for the various grades of upland cotton are shown below.

| GRADE | | GRADE INDEX | | | | | | |
|----------------------|------|-------------|--------------|-------------------------|----------------|---------------|----------------------|-------------|
| Name | Code | Plus (0) | White (1) | Light Spotted (2) | Spotted (3) | Tinged (4) | Light Gray (6) | Gray (7) |
| Good Middling | (1) | | 105 | 103 | 101 | | 99 | 93 |
| Strict Middling | (2) | | 104 | 102 | 99 | 91 | 98 | 91 |
| Middling | (3) | 102 | 100 | 97 | 93 | 82 | 92 | 84 |
| Strict Low Middling | (4) | 97 | 94 | 89 | 83 | 75 | 85 | 75 |
| Low Middling | (5) | 90 | 85 | 80 | 75 | 68 | | |
| Strict Good Ordinary | (6) | 81 | 76 | | | | | |
| Good Ordinary | (7) | 73 | 70 | | | | | |
| Below Grade | (8) | | 60 | | | | | |

The grade of cotton is obtained by evaluating color, leaf and preparation in relation to the official standards. Grade provides an indication of fiber color and the waste content of a sample of cotton. Experience has shown the average relationship between picker and card waste and various grades of upland cotton to be approximately as given in the tabulation shown in the subsequent section on manufacturing waste. In comparing these average grade figures with the picker and card waste data, it should be understood that variations from the averages for individual samples are attributable to the nature of the extraneous material present in the cotton, the characteristics of the fiber, and whether the grade designation was low because of poor color.

Staple length is the length of a typical portion of the fibers in the samples as determined by the classer in comparison with official standards. Uniformity of fiber length, as well as other fiber properties, influences to some extent the classer's selection of the typical portion of the fibers on which the staple length designation is based. In general, there is a fairly close relationship between the staple length as designated by the classer and the fineness and strength of the yarn that can be manufactured from the cotton. These relationships, however, are also influenced by other fiber properties, the measurement of which will be discussed in the paragraphs which follow.

Fiber Tests

Fiber length data were obtained by the Digital Fibrograph method for the short, medium, and long staple American Upland samples and by the array method for the extra long American Pima and Upland samples. Briefly, the Digital Fibrograph method consists of placing representative specimens of cotton at random on a comb or combs, parallelizing the beards of cotton extending from one side of the combs, and scanning these beards photo-electrically on the instrument at 3 length intervals beginning at 0.15 inch from the teeth of the combs and ending near the outer fringe. The 2.5 percent span length and the 50/2.5 uniformity ratio values reported for each lot are based on five specimens tested by each of two technicians.

The Digital Fibrograph 2.5 percent span length values reported indicate the length which will be spanned by 2.5 percent of the fibers when they are parallel and randomly distributed. It is also the length where the amount of fibers indicated by the instrument is 2.5 percent of the amount at the starting point of 0.15 inch. The Digital Fibrograph 2.5 percent span length values are closely related to staple length designations.

The Digital Fibrograph 50/2.5 uniformity ratio values reported indicate the relative uniformity of fiber length in the samples. They represent the ratios between the 50 percent span length and the 2.5 percent span length, expressed as percentages. Larger values indicate more uniform fiber length distribution. Unusually low fiber length uniformity tends to increase manufacturing waste, to make processing more difficult, and to lower the quality of the product. The following adjective descriptions will serve to classify cottons from the standpoint of 2.5 percent span length and fiber length uniformity:

| <u>2.5 Percent Span Length</u> | | <u>50/2.5 Uniformity Ratio</u> | |
|--------------------------------|------------|--------------------------------|-----------|
| Below 0.97 | Short | Below 41 | Very Low |
| 0.97 - 1.09 | Medium | 41 - 43 | Low |
| 1.10 - 1.28 | Long | 44 - 46 | Average |
| Above 1.28 | Extra long | 47 - 48 | High |
| | | Above 48 | Very High |

Data Source: 1,956 American Upland lots tested from the crops of 1974-78.

Array tests for the extra long staple American Pima and Upland samples were performed on the Suter-Webb fiber sorter. Briefly, this method consists of parallelizing the fibers in a representative 75-milligram specimen of cotton through a series of combs, separating the fibers into length groups at 1/8-inch intervals, and weighing the fibers in each length group. The upper quartile length and coefficient of variation values reported are based on one specimen tested by each of two technicians.

The array upper quartile length values reported indicate the length which is exceeded by 25 percent of the weight of the fibers in the samples. They are closely related to and longer than both the Fibrograph and the classer's staple designations. This relationship may vary, however, because the methods measure different fiber length characteristics.

The array coefficient of length variation values reported indicate the relative variability of fiber length in the samples. They represent the standard deviation of the weight-length frequencies expressed as a percentage of the mean length. Smaller values indicate more uniform fiber length distributions. Excessive fiber length variation tends to increase manufacturing waste, to make processing more difficult, and to lower the quality of the product. It is, therefore, considered desirable for a cotton to have a low coefficient of variation. The following adjective descriptions will serve to classify cottons from the standpoint of upper quartile length and fiber length variations:

| <u>Upper Quartile Length</u> | | | <u>Coefficient of Fiber Length Variation</u> | |
|------------------------------|------------|--|--|---------------------|
| Below 1.07 | Short | | Below 26 | Very low variation |
| 1.07 - 1.21 | Medium | | 26 - 29 | Low variation |
| 1.22 - 1.42 | Long | | 30 - 33 | Average variation |
| Above 1.42 | Extra-long | | 34 - 37 | High variation |
| | | | Above 37 | Very high variation |

Data Source: 830 American Upland lots tested from the crops of 1958-60.
(More recent data not available)

Fiber fineness and maturity in combination were determined by the micronaire test. This is an instrument test which measures the resistance of a plug of cotton to air flow. A representative standard weight of cotton fibers is placed in the instrument specimen holder and compressed to a fixed volume. Air at a known pressure is forced through the specimen and the amount of flow is indicated by a direct reading scale. Readings obtained are relative measures of either the weight per unit length, or the cross-sectional size of the fibers. Because the instrument measures may differ from the actual weight per inch, depending upon the fiber characteristics of the sample, the results are reported in terms of "micronaire reading" instead of micrograms per inch. These readings are taken from the curvilinear scale adopted in 1950, and now in international use. Fiber fineness contributes to yarn strength, particularly when fine numbers are spun, but it also tends to increase neppiness and to require a reduced rate of processing.

Fiber maturity, also an important factor affecting the appearance of yarns and fabrics, is a desirable characteristic from the standpoint of low picker and card waste. Immature fibers are susceptible to the formation of neps, and contribute to lower yarn appearance grades. The desirability of micronaire reading, therefore, depends on the specific end product or use of the cotton.

Several instruments, including the Micronaire, Fibronaire, and Port-Ar, may be used for these tests. All instruments now use the same scale and report results in the same terms, i.e., "micronaire reading." The micronaire reading is now a part of the official standards for Upland cotton along with grade and staple length.

Fiber strength is an important factor in determining yarn strength. Cottons with good fiber strength usually give less trouble in the manufacturing processes than the weak fibered cottons. Tests for fiber strength are made without a space between the clamp jaws (0 gage) using the Pressley flat bundle tester, and with a 1/8-inch spacer between the clamp jaws (1/8-inch gage) using the Stelometer. Strength results from the Pressley and the Stelometer were controlled at the same level by use of standard calibration cottons. Use of the Stelometer also provides a measure of fiber elongation. Comparative tests have shown that the results of the 1/8-inch gage tests are more highly correlated with yarn strength than the results of the zero gage tests. Results for both methods are reported, however, because the zero gage tests are widely used by the cotton industry.

The results for the Pressley zero gage test are reported in terms of thousand pounds per square inch, as calculated by the use of Formula 1. These results may be converted to other methods of expressing fiber strength by use of Formulas 2, 3 and 4:

(1) Thousand pounds per square inch (Mpsi) =

$$\frac{\text{breaking load in lb} \times 10.81}{\text{bundle weight in mg}}$$

(2) Grams per tex (G/tex) = Mpsi \times 0.496

(3) Strength-weight ratio = Mpsi \div 10.81

(4) Strength-weight ratio = G/tex \div 5.36

The results of the 1/8-inch gage tests are reported in terms of grams per tex in accordance with the recommendations of the American Society for Testing and Materials (ASTM) and the International Standards Organization (ISO). A tex unit is equal to the weight in grams of 1000 meters of the material. There is a correlation between the 1/8-inch gage strength test results and fiber length. Cottons with short lengths tend to have lower average strength values than long staple cottons. Results for Stelometer 1/8-inch gage tests are calculated by use of Formula 5. Stelometer results are adjusted to Pressley level by use of calibration cottons.

(5) Grams per tex = $\frac{\text{breaking load (kg)} \times 15}{\text{bundle weight in mg}}$

The following descriptive terms may be applied to the data shown in this report:

| <u>Staple Length Group and Descriptive Designation</u> | <u>Zero Gage Strength (thousand psi)</u> | <u>1/8-inch Gage Strength (grams per tex)</u> |
|--|--|---|
| Short Staple: | | |
| Very Low | 74 - 78 | 17 - 18 |
| Low | 79 - 83 | 19 - 20 |
| Average | 84 - 88 | 21 - 22 |
| High | 89 - 93 | 23 - 24 |
| Very High | 94 - 98 | 25 - 26 |
| Medium Staple: | | |
| Very Low | 70 - 76 | 16 - 18 |
| Low | 77 - 83 | 19 - 21 |
| Average | 84 - 90 | 22 - 24 |
| High | 91 - 97 | 25 - 27 |
| Very High | 98 - 104 | 28 - 30 |
| Long Staple: | | |
| Very Low | 71 - 77 | 18 - 20 |
| Low | 78 - 84 | 21 - 23 |
| Average | 85 - 91 | 24 - 26 |
| High | 92 - 98 | 27 - 29 |
| Very High | 99 - 105 | 30 - 32 |
| Extra Long Staple: | | |
| Very Low | 93 - 96 | 27 - 29 |
| Low | 97 - 100 | 30 - 32 |
| Average | 101 - 104 | 33 - 35 |
| High | 105 - 108 | 36 - 38 |
| Very High | 109 - 112 | 39 - 41 |

Data Source: 365 short staple; 1,447 medium staple; 144 long staple; and 88 extra long staple lots of cotton tested from the crops of 1974-78.

Fiber elongation results were obtained in connection with the 1/8-inch gage fiber strength tests by using the Stelometer instrument. The following adjective ratings will assist in the interpretation of the fiber elongation results reported:

| <u>Descriptive Designation</u> | <u>Fiber Elongation (Percent)</u> |
|--------------------------------|-----------------------------------|
| Very Low | 4.9 and below |
| Low | 5.0 - 5.8 |
| Average | 5.9 - 6.7 |
| High | 6.8 - 7.6 |
| Very High | 7.7 and above |

Data Source: 1,956 American Upland lots tested from the crops of 1974-78.

Color measurements were made on samples of raw cotton from each lot by using the Nickerson-Hunter Cotton Colorimeter. The basic color values reported are in terms of grayness (Rd) and yellowness (+b) scales designed especially for cotton. Grayness indicates how light or dark the cotton sample is, and yellowness indicates how much yellow color is in the sample. Starting with the 1980 Cotton Fiber and Processing Test Results Survey, new 3-digit color codes are being used in place of the single codes for grayness and yellowness that have been used in recent years. The new color code subdivides each grade into quadrants to denote relative color differences within a grade for a more precise color measurement. The relationship of these new color codes to grayness (Rd) and yellowness (+b) values and to the color of the Universal Grade Standards for upland cotton is shown in Figure 2. A color diagram for American Pima cotton is shown in Figure 3.

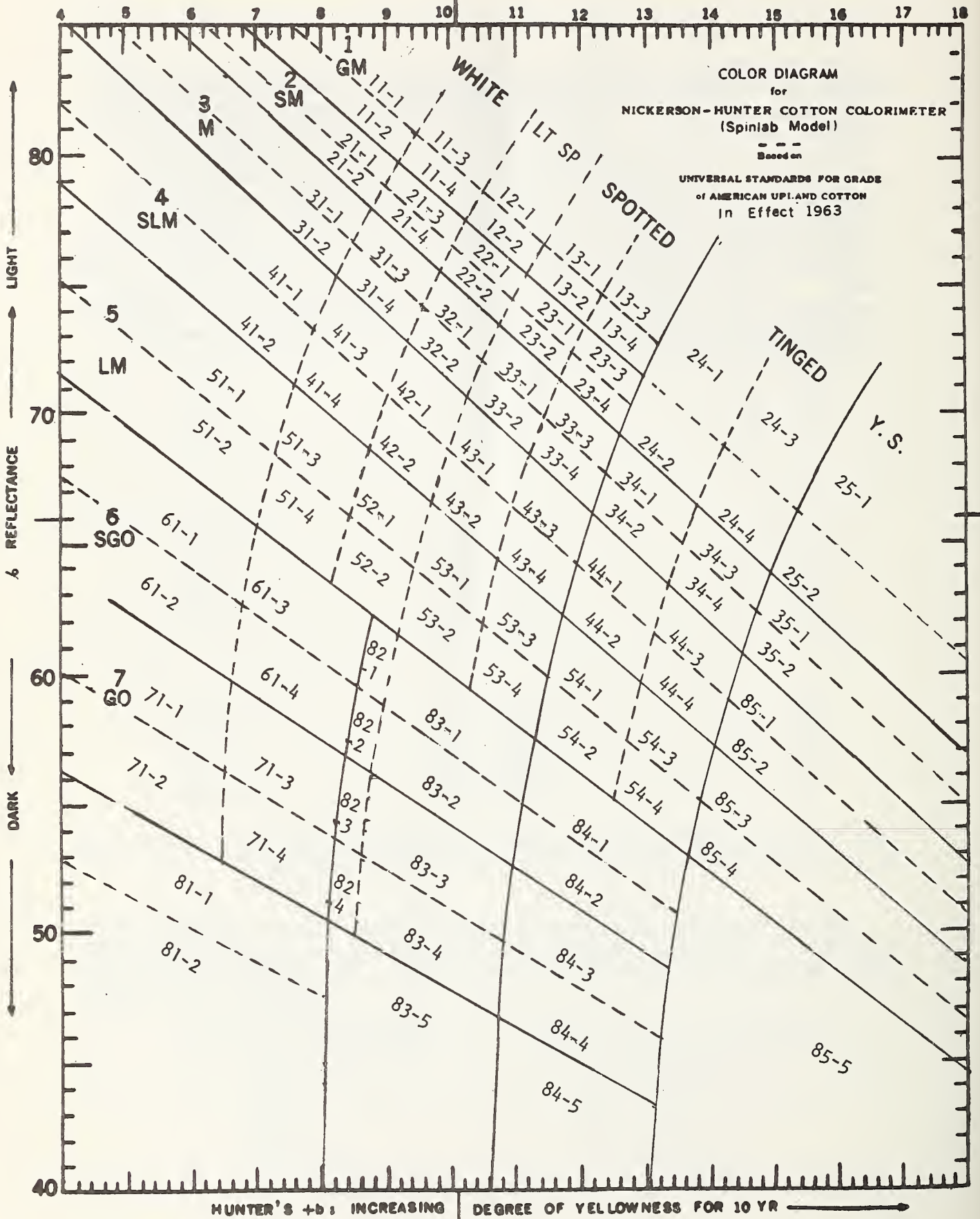


Figure 2

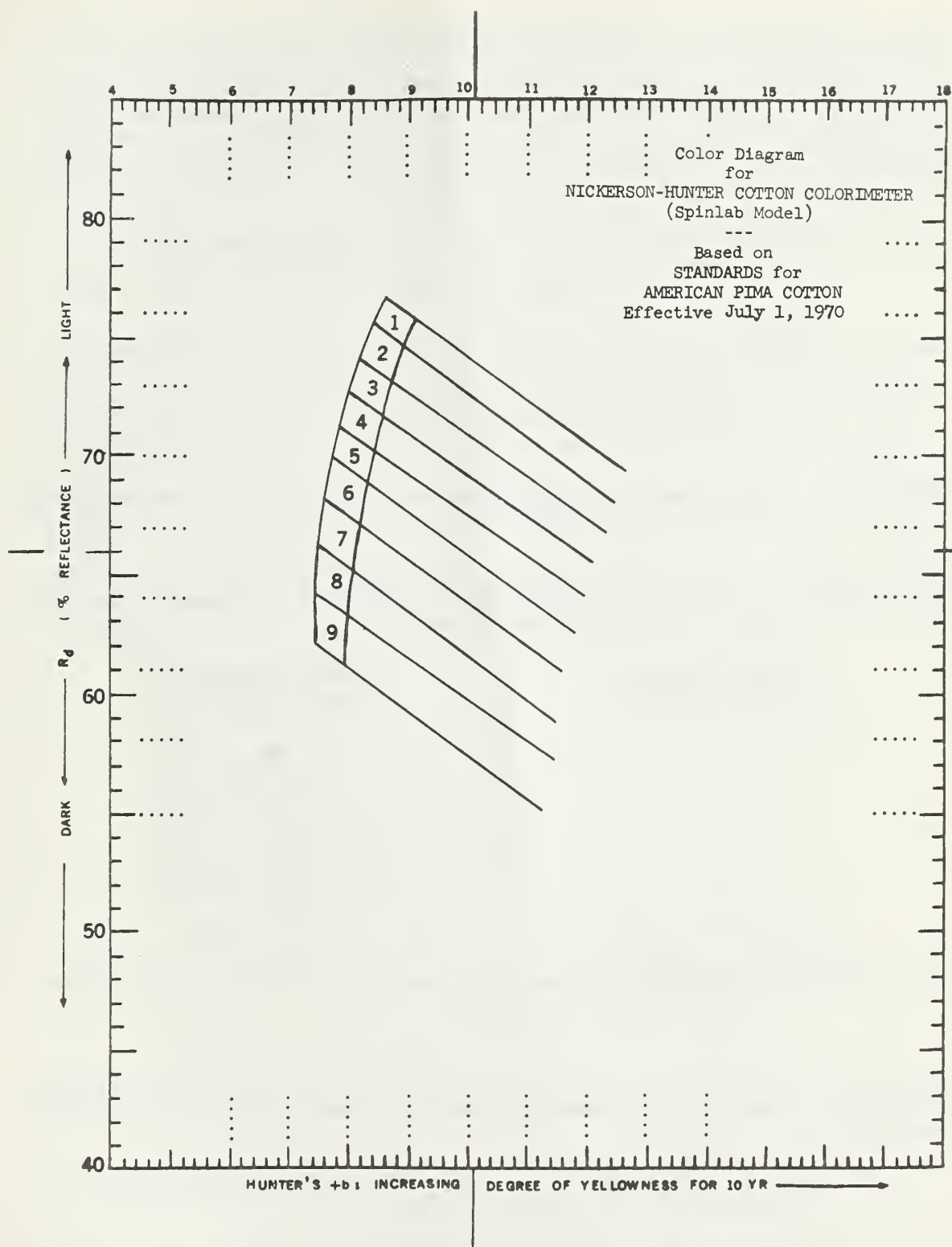


Figure 3. Colorimeter diagram for American Pima cotton.

Non-lint content for the various lots was determined by the use of the Shirley Analyzer which separates the lint from the foreign matter. The total non-lint values reported include both visible and invisible loss. These results are distinguished from total picker and card waste in that practically no fiber is included, whereas textile mill wastes include appreciable amounts of fiber. Tests performed in previous years show the following average relationship of Shirley Analyzer non-lint to grade:

| <u>American Upland Grade</u> | <u>Code</u> | <u>Average Non-lint Content (percent)</u> |
|----------------------------------|-------------|---|
| Strict Middling | (21) | 1.9 |
| Middling | (31) | 2.3 |
| Strict Low Middling | (41) | 3.1 |
| Low Middling | (51) | 4.4 |
| Strict Good Ordinary | (61) | 5.6 |
| Good Ordinary | (71) | 7.2 |

Data Source: 5,953 American Upland Color and Trash Survey samples tested from crops of 1974-78.

The following scale has been developed to represent the average non-lint content for grades of American Pima cotton:

| <u>American Pima Grade</u> | <u>Average Non-lint Content (percent)</u> |
|--------------------------------|---|
| 2 | 1.9 |
| 3 | 2.3 |
| 4 | 3.0 |
| 5 | 3.7 |
| 6 | 4.7 |
| 7 | 6.0 |
| 8 | 8.4 |
| 9 | 9.1 |

Data Source: 2,543 American Pima Color and Trash Survey samples tested from the crops of 1974-78.

Differences between results obtained for individual lots and the average percentages shown for the grades may be due to one or more of the following reasons:

- (1) Grade is a combination of color, leaf and preparation; any one of which may be the limiting factor.
- (2) There is a range of trash allowable within each specific grade.
- (3) These data are based on weight and do not take into consideration the nature of the trash, which may be as important as weight in determining the final grade.

Yarn Processing Tests

Small scale spinning tests were performed to provide indications of the processing behavior of the various cottons. The percentage of picker and card waste is related to mill turnout. Low percentages of waste indicate high mill turnout. Yarn strength, yarn appearance, yarn neps, and chemical finishing test results as measured in these tests are related to similar quality measurements of the mill product. The spinning potential test provides a measure of spinning end breakage and is directly related to the spinning behavior in the mill. High spinning potential yarn (SPY) numbers indicate low end breakage or good spinning in the mill.

Manufacturing waste reported for a sample of cotton is important because excessive waste increases the cost of cotton products. The percentage of waste extracted by the picking and carding processes in performing a spinning test provides a measure of manufacturing waste. There is an average relationship between this waste and grade as discussed in the previous section on the grade of cotton. The rate at which the cotton is carded, however, affects the picker and card waste values because the more thorough carding action obtained when the carding rate is decreased extracts a larger quantity of waste. The longer staple cottons are generally carded at a lower rate than the shorter cottons in order to obtain acceptable yarn quality. Tests performed in recent years show the following average relationship of picker and card waste to grade:

| <u>American Upland</u> <u>Grade</u> | <u>Code</u> | <u>Average Picker and</u> <u>Card Waste (percent)</u> |
|--|-------------|--|
| Strict Middling | (21) | 5.2 |
| Middling | (31) | 5.5 |
| Strict Low Middling | (41) | 6.0 |
| Low Middling | (51) | 6.9 |
| Strict Good Ordinary | (61) | 7.7 |
| Good Ordinary | (71) | 8.8 |

| <u>American Pima</u> <u>Grade</u> | <u>Average Picker and</u> <u>Card Waste (percent)</u> |
|--------------------------------------|--|
| 2 | 6.4 |
| 3 | 6.7 |
| 4 | 7.4 |
| 5 | 8.0 |
| 6 | 8.9 |
| 7 | 10.1 |
| 8 | 12.3 |
| 9 | 12.9 |

Data Source: 5,953 samples of American Upland cotton and 2,543 samples of American Pima Cotton tested for Shirley Analyzer non-lint content from the crops of 1974-78. Picker and card waste was calculated from its relationship to Shirley Analyzer non-lint content.

The percentage of waste removed by the comber is reported in addition to the picker and card waste for cottons processed into combed yarn. The shorter staple cottons are processed through the comber with a closer setting than for the longer staple cottons because smaller comber waste percentages are usually extracted from this cotton in commercial practice.

Yarn strength is perhaps the most important and reliable test of yarn quality. Yarn strength not only determines the range of the usefulness of a given cotton, but is also an indication of spinning and weaving performance. The yarn strength test is performed on 120 yard skeins (80 turns on a 1.5 yard reel). Results reported are based on the average of 25 skeins for each yarn number. Yarn strength is reported in terms of skein strength since studies have shown that such strength values are more closely related to fabric strength as well as to fiber properties than single strand yarn strength. Skein strength data for the two numbers spun are reported for each lot. Length, strength, and fineness influence yarn strength more than other fiber properties.

The following descriptive terms may be of help in determining the relative level of yarn strength in this report:

| Kind of yarn, staple length group, and description | Yarn skein strength in pounds for the specified yarn numbers | |
|--|--|-----------|
| <u>Carded Yarns</u> | | |
| Short Staple Group: | 8s | 22s |
| Low | 262 - 282 | 82 - 90 |
| Average | 283 - 303 | 91 - 99 |
| High | 304 - 324 | 100 - 108 |
| Medium Staple Group: | 22s | 50s |
| Low | 88 - 100 | 26 - 32 |
| Average | 101 - 113 | 33 - 39 |
| High | 114 - 120 | 40 - 46 |
| Long Staple Group: | 22s | 50s |
| Low | 89 - 105 | 26 - 34 |
| Average | 106 - 122 | 34 - 43 |
| High | 123 - 139 | 44 - 52 |
| <u>Combed Yarns</u> | | |
| Long Staple Group: | 22s | 50s |
| Low | 110 - 126 | 35 - 43 |
| Average | 127 - 143 | 44 - 52 |
| High | 144 - 160 | 53 - 61 |
| Extra Long Staple Group: | 50s | 80s |
| Low | 61 - 63 | 31 - 33 |
| Average | 64 - 66 | 34 - 36 |
| High | 67 - 69 | 37 - 39 |

Data Source: 365 short staple; 1,447 medium staple; 144 long staple; and 88 extra long staple lots of cotton tested from the crops of 1974-78.

Yarn elongation results were obtained in connection with yarn skein strength tests. Elongation in the yarn is highly correlated with fiber elongation. Yarns with high elongation give less end breakage in weaving than yarns with low elongation.

The following descriptive terms may be of some help in determining the relative levels of yarn elongation:

| <u>Kind of yarn, staple length group, and description</u> | <u>Yarn elongation in percent for the specified yarn numbers</u> | |
|---|--|-----------|
| <u>Carded Yarns</u> | | |
| Short Staple Group: | 8s | 22s |
| Low | 6.3 - 6.9 | 5.2 - 5.8 |
| Average | 7.0 - 7.6 | 5.9 - 6.5 |
| High | 7.7 - 8.3 | 6.6 - 7.2 |
| Medium Staple Group: | 22s | 50s |
| Low | 5.0 - 5.6 | 3.4 - 4.0 |
| Average | 5.7 - 6.3 | 4.1 - 4.7 |
| High | 6.4 - 7.0 | 4.8 - 5.4 |
| Long Staple Group: | 22s | 50s |
| Low | 4.7 - 5.3 | 3.4 - 4.0 |
| Average | 5.4 - 6.0 | 4.1 - 4.7 |
| High | 6.1 - 6.7 | 4.8 - 5.4 |
| <u>Combed Yarns</u> | | |
| Long Staple Group: | 22s | 50s |
| Low | 5.6 - 6.0 | 4.2 - 4.6 |
| Average | 6.1 - 6.5 | 4.7 - 5.1 |
| High | 6.6 - 7.0 | 5.2 - 5.6 |
| Extra Long Staple Group: | 50s | 80s |
| Low | 5.2 - 5.4 | 4.3 - 4.5 |
| Average | 5.5 - 5.7 | 4.6 - 4.8 |
| High | 5.8 - 6.0 | 4.9 - 5.1 |

Data Source: 365 short staple; 1,447 medium staple; 144 long staple and 88 extra long staple lots of cotton tested from the crops of 1974-78.

Yarn appearance refers to the relative evenness, smoothness and freedom from foreign material of the yarn as evaluated by a visual comparison of the yarn with the latest standards adopted by the American Society for Testing and Materials (ASTM). Since appearance is very important in many types of cotton products, high yarn appearance grades are desirable. The following descriptive terms may be of help in determining the relative levels of yarn appearance in this report.

| Kind of yarn, staple length group, and description | Yarn appearance index for the specified yarn numbers | |
|--|--|-----------|
| <u>Carded Yarns</u> | | |
| Short Staple Group: | 8s | 22s |
| Low | 109 - 117 | 91 - 101 |
| Average | 118 - 126 | 102 - 112 |
| High | 127 - 135 | 113 - 123 |
| Medium Staple Group: | 22s | 50s |
| Low | 76 - 88 | 58 - 68 |
| Average | 89 - 101 | 69 - 79 |
| High | 102 - 114 | 80 - 90 |
| Long Staple Group: | 22s | 50s |
| Low | 77 - 91 | 60 - 70 |
| Average | 92 - 106 | 71 - 81 |
| High | 107 - 121 | 82 - 92 |
| <u>Combed Yarn</u> | | |
| Long Staple Group: | 22s | 50s |
| Low | 93 - 105 | 77 - 87 |
| Average | 106 - 118 | 88 - 98 |
| High | 119 - 131 | 99 - 109 |
| Extra Long Staple Group: | 50s | 80s |
| Low | 100 - 106 | 97 - 105 |
| Average | 107 - 113 | 106 - 114 |
| High | 114 - 120 | 115 - 123 |

Data Source: 365 short staple; 1,447 medium staple; 144 long staple; and 88 extra long staple lots of cotton tested from the crops of 1974-78.

| <u>Yarn Appearance Grades</u> | |
|-------------------------------|--------------|
| <u>Grade</u> | <u>Index</u> |
| A | 130 |
| B+ | 120 |
| B | 110 |
| C+ | 100 |
| C | 90 |
| D+ | 80 |
| D | 70 |
| Below D | 60 |

Yarn neps are reported for the two yarn numbers spun for each lot of cotton. These results were obtained on a Uster Evenness Tester with Imperfection Indicator, Model B. This is an electronic instrument which detects and counts neps in yarn. The yarn is drawn through a set of condenser plates, approximately 8 mm in length. These plates create an electrical field which counts the neps when the yarn oversteps or understeps present limiting values. Yarn nep tests are made at a constant speed of 50 yards per minute for five minutes, for a total of 250 yards tested per observation. Two observations are considered a complete test. The total of the two observations is multiplied by two to obtain the number of yarn neps per 1,000 yards. Insufficient data has been collected to develop descriptive terms for determining relative levels of yarn neps.

Spinning potential yarn number indicates the finest yarn number that can be spun from a cotton sample without any end breakage when using specific processing procedures. In performing these tests, new travelers, draft gears, and twist gears are installed for the selected yarn number and it is spun for a 15-minute trial period. The yarn number selected is considered acceptable if there is an end breakage involving 5 to 15 of the 96 spindles employed during the trial run. If end breakages occur on less than 5 or more than 15 of the 96 spindles during the trial period, a different yarn number is selected to be spun for another 15-minute trial period until the acceptable end breakage rate is obtained. The acceptable trial period is also used for a warm-up period which is followed by a 1-hour test period. The spinning potential yarn number is calculated from the deviation of the actual yarn number spun from the desired yarn number and the number of spindles with end breakages during the 1-hour test run. The following descriptive terms may be of help in determining the relative level of spinning potential yarn numbers in this report:

Spinning Potential Yarn Number (SPY No.)

| | <u>Short Staple Group</u> | <u>Medium Staple Group</u> | <u>Long Staple Group</u> |
|---------|-------------------------------|--------------------------------|------------------------------|
| Low | 31 - 39 | 43 - 53 | 49 - 63 |
| Average | 40 - 48 | 54 - 64 | 64 - 78 |
| High | 49 - 57 | 65 - 75 | 79 - 93 |

Data Source: 365 short staple; 1,447 medium staple; and 144 long staple lots of cotton tested from the crops of 1974-78.

Chemical Finishing Tests

Information on bleaching and dyeing characteristics of different varieties and growths of raw cotton is useful to textile manufacturers. This information provides a basis for avoiding problems that may result from blending various varieties and growths of cotton with different dyeing properties. Data on chemical finishing properties may thus be used as a basis for selecting cottons of similar finishing properties. Small-scale finishing tests are made on 3-gram samples of finisher drawing sliver. The Ahiba Texomat Dyer is used to make the various finishing tests on the cotton samples. The cotton sample is scoured in a solution containing water, sodium hydroxide, sodium silicate, and wetting agents. After the sample has been scoured, it is then bleached in a solution of water, sodium hydroxide, sodium silicate, hydrogen peroxide, and a sequestering agent. After bleaching, the sample is dyed in a solution of water, direct sky blue dye and sodium chloride.

Color measurements are made on unfinished, bleached and dyed cotton samples. These samples are measured on a Hunterlab Colorimeter, Model 25 M-3. The color values are reported in terms of reflectance (Rd), yellowness (+b) and blueness (-b). The Rd value gives percentages of diffuse reflectance from 0 to 100. The +b value provides a measure of yellowness and the -b value provides a measure of blueness. The brightness or reflectance of the cotton samples increases as the percentage reflectance (Rd) increases. Similarly, the degree of either yellowness (+b) or blueness (-b) increases as the numbers increase.

Open-End Spinning

This season's summary included yarn quality measurements on short staple cottons spun on an open-end frame. All short staple cotton (Group I) were spun into 8s yarn on a Barber Coleman Spin-Flex open-end frame. The results are reported in Table 5a. Machine settings are shown under Item 8, Table 16 on page 129.

Table 16--Cotton: Standard machine settings and specifications for processing specified staple length groupings

| PROCESS | STAPLE LENGTH GROUPS | | | |
|--|----------------------|-----------|-----------|-----------|
| | Short | Medium | Long | Extra |
| 1. PICKER | | | | |
| Standard atmospheric conditions: | | | | |
| Temperature.....degrees F. | 75 | 75 | 75 | |
| Relative humidity.....percent | 60 | 60 | 60 | |
| Each test lot is processed through a finisher-type picker twice to produce the specified weight of lap.....ounces per yard | 14 | 14 | 14 | |
| Type of beater..... | Kirschner | Kirschner | Kirschner | Kirschner |
| Beater speed.....r.p.m. | 1,000 | 1,000 | 1,000 | 1,000 |
| Settings: | | | | |
| Feed roll to beater.....inches | 3/16 | 3/16 | 3/16 | 3/16 |
| Grids to beater, top.....inches | 5/16 | 5/16 | 5/16 | 5/16 |
| Grids to beater, bottom.....inches | 11/16 | 11/16 | 11/16 | 11/16 |
| 2. CARD | | | | |
| Standard atmospheric conditions: | | | | |
| Temperature.....degrees F. | 75 | 75 | 75 | |
| Relative humidity.....percent | 60 | 60 | 60 | |
| Picker lap fed.....ounces per yard | 14 | 14 | 14 | |
| Sliver delivered.....grains per yard | 50 | 50 | 50 | |
| Production rate.....pounds per hour | 12-1/2 | 9-1/2 | 6-1/2 | 4 |
| Doffer speed.....r.p.m. | 11 | 8 | 6 | |
| Cylinder speed.....r.p.m. | 165 | 165 | 165 | 165 |
| Flat speed.....inches per minute | 2-7/8 | 2-7/8 | 2-7/8 | 2-7/8 |
| Licker-in speed.....r.p.m. | 435 | 435 | 435 | 435 |
| Clothing: | | | | |
| Cylinder, Hollingsworth metallic.....number | 35 | 35 | 25 | 25 |
| Doffer, Hollingsworth metallic.....number | 29 | 29 | 29 | 29 |
| Flats, Fillet.....number | 110 | 110 | 130 | 130 |
| Settings: | | | | |
| Feed plate to licker-in.....inches | 0.010 | 0.010 | 0.010 | 0.010 |
| Mote knife to licker-in, top.....inches | .012 | .012 | .012 | .012 |
| Mote knife to licker-in, bottom.....inches | .010 | .010 | .010 | .010 |
| Licker-in screen to cylinder.....inches | .034 | .034 | .034 | .034 |
| Licker-in to cylinder.....inches | .007 | .007 | .007 | .007 |
| Flats to cylinder, back, center, and front.....inches | .010 | .010 | .010 | .010 |
| Back plate to cylinder, top.....inches | .022 | .022 | .022 | .022 |
| Back plate to cylinder, bottom.....inches | .022 | .022 | .022 | .022 |
| Front plate to cylinder, top.....inches | .029 | .029 | .029 | .029 |
| Front plate to cylinder, bottom.....inches | .012 | .012 | .012 | .012 |
| Doffer to cylinder.....inches | .007 | .007 | .007 | .007 |
| Cylinder screen, back.....inches | .022 | .022 | .022 | .022 |
| Cylinder screen, center.....inches | .034 | .034 | .034 | .034 |
| Cylinder screen, front.....inches | 3/16 | 3/16 | 3/16 | 3/16 |
| Doffer comb to doffer.....inches | .017 | .017 | .017 | .017 |
| Crusher rolls pressure.....pounds | 281 | 281 | 281 | 281 |
| 3. SLIVER LAPER (combed only) | | | | |
| Standard atmospheric conditions: | | | | |
| Temperature.....degrees F. | -- | -- | 75 | 75 |
| Relative humidity.....percent | -- | -- | 60 | 60 |
| Sliver fed, 20 each.....grains per yard | -- | -- | 42 | 42 |
| Lap delivered.....grains per yard | -- | -- | 808 | 808 |
| Speed.....yards per minute | -- | -- | 46 | 46 |
| 4. COMBER (Model 52) | | | | |
| Standard atmospheric conditions: | | | | |
| Temperature.....degrees F. | -- | -- | 75 | 75 |
| Relative humidity.....percent | -- | -- | 60 | 60 |
| Laps fed, 6 each.....grains per yard | -- | -- | 808 | 808 |
| Sliver delivered.....grains per yard | -- | -- | 50 | 50 |
| Production per hour.....pounds | -- | -- | 22 | 22 |
| Setting of cushion plate to detaching roll.....inches | -- | -- | .33 | .33 |
| Nominal waste.....percent | -- | -- | 16 to 17 | 16 to 17 |



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Table 16--Continued

| PROCESS | STAPLE LENGTH GROUPS | | | |
|--|----------------------|-----------|-----------|------------------|
| | Short | Medium | Long | Extra Long |
| 5. DRAWING FRAME (four over five) | | | | |
| Standard atmospheric conditions: | | | | |
| Temperature.....degrees F. | 75 | 75 | 75 | 75 |
| Relative humidity.....percent | 60 | 60 | 60 | 60 |
| First process: | | | | |
| Sliver fed, 8 each.....grains per yard | 50 | 50 | 50 | 40 |
| Sliver delivered.....grains per yard | 55 | 53 | 53 | 42 |
| Second process: | | | | |
| Sliver fed, 8 each.....grains per yard | 55 | 53 | 53 | 42 |
| Sliver delivered.....grains per yard | 60 | 55 | 55 | 44 |
| Speed.....yards per minute | 36 | 36 | 36 | 36 |
| Roll settings (center to center): | | | | |
| First to third.....inches | 2-3/4 | 2-3/4 | 2-3/4 | 2-3/4 |
| Third to fourth.....inches plus fiber length | 10/16 | 10/16 | 10/16 | 8/16 |
| Fourth to fifth.....inches plus fiber length | 13/16 | 13/16 | 13/16 | 12/16 |
| 6. LONG DRAFT ROVING (8 x 4, 1 apron type) | | | | |
| Standard atmospheric conditions: | | | | |
| Temperature.....degrees F. | 75 | 75 | 75 | 75 |
| Relative humidity.....percent | 60 | 60 | 60 | 60 |
| Sliver fed.....grains per yard | 60 | 55 | 55 | 44 |
| Roving delivered.....hank | 1.30 | 1.80 | 1.80 | 4.25 |
| Spindle speed.....r.p.m. | 1025 | 1025 | 1025 | 1025 |
| Roll settings (center to center): | | | | |
| First to second, standard.....inches | 2-1/4 | 2-1/4 | 2-1/4 | 2-1/4 |
| Second to third.....inches | 1-3/8 | 1-1/2 | 1-5/8 | 1-11/16 to 1-7/8 |
| 7. LONG DRAFT SPINNING (2 apron type) | | | | |
| Standard atmospheric conditions: | | | | |
| Temperature.....degrees F. | 75 | 75 | 75 | 75 |
| Relative humidity.....percent | 65 | 65 | 65 | 65 |
| Roving fed single.....hank | 1.30 | 1.80 | 1.80 | 4.25 |
| Twist multiplier.....number | 4.4 | 4.0 | 3.8 | 3.6 |
| Carded yarns.....number 1/ | 8s & 22s | 22s & 50s | 22s & 50s | -- |
| Combed yarns.....number | -- | -- | 22s & 50s | 50s & 80s |
| Spindle speed.....r.p.m. 2/ | 9000 | 9000 | 9000 | 9000 |
| Roll settings (center to center): | | | | |
| First to second, standard.....inches | 2-1/16 | 2-1/16 | 2-1/16 | 2-1/16 |
| Second to third, standard.....inches | 1-3/4 | 1-3/4 | 1-3/4 | 1-3/4 |
| 8. OPEN-END SPINNING | | | | |
| Standard atmospheric conditions: | | | | |
| Temperature.....degrees F. | 75 | -- | -- | -- |
| Relative humidity.....percent | 65 | -- | -- | -- |
| Sliver fed.....grains per yard | 60 | -- | -- | -- |
| Twist multiplier.....number | 4.5 | -- | -- | -- |
| Carded yarns.....number | 8s | -- | -- | -- |
| Rotor speed.....r.p.m. | 45,000 | -- | -- | -- |
| Rotor diameter.....mm | 46 | -- | -- | -- |
| Opening roll speed.....r.p.m. | 7,200 | -- | -- | -- |

1/ Additional yarn is spun on a 96 spindle wide gage frame at 9,000 r.p.m. spindle speed to determine the spinning potential yarn number or the finest yarn number that can be spun without end-breakage.

2/ All standard yarn numbers are spun on narrow gage frames with spindle speeds of 9,000 r.p.m. except for 8s, which are spun on a wide gage frame with spindle speed of 5,500 r.p.m.